

Area Increase for Frontage	
$I_f = 100 \left(\frac{P}{P_f} - 25 \right) \frac{W}{30}$	
W = 30	W/30 = 1.00
P = 551	
P _f = 9,500	Is the building sprinklered?
NS = 75%	Number of Stories
I _f = 75%	

Total Allowable Area - 1st Floor	
$A_1 = A_s + (A_f / I_f) + (A_1 / 100)$	
A ₁ = 28,500	Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A _s = 35,625 SF	Total Allowable Area/Floor

Total Allowable Area - 2nd Floor	
$A_2 = A_s + (A_f / I_f) + (A_2 / 100)$	
A ₂ = 28,500	Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A _s = 35,625 SF	Total Allowable Area/Floor

Total Allowable Area - 3rd Floor	
$A_3 = A_s + (A_f / I_f) + (A_3 / 100)$	
A ₃ = 28,500	Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A _s = 35,625 SF	Total Allowable Area/Floor

I_f = Area increase due to frontage
P = Building perimeter that fronts on a public way or accessible open space having 20' minimum width
P_f = Perimeter of entire building
W = Minimum width of public way or accessible open space

A_s = Total Allowable Area
A_f = Area from Table 506.2

Actual 1st Floor Area From Sheet 1: 13,659
Allowable building area conforms

A_s = Total Allowable Area
A_f = Area from Table 506.2

Actual 2nd Floor Area From Sheet 1: 5,044
Allowable building area conforms

A_s = Total Allowable Area
A_f = Area from Table 506.2

Actual 3rd Floor Area From Sheet 1: 11,221
Allowable building area conforms

W_{min} for frontage is 20', max value for W/30 is 1 (no matter what the value of W is beyond 30')

Table 506.2: Allowable Building Areas, per floor:

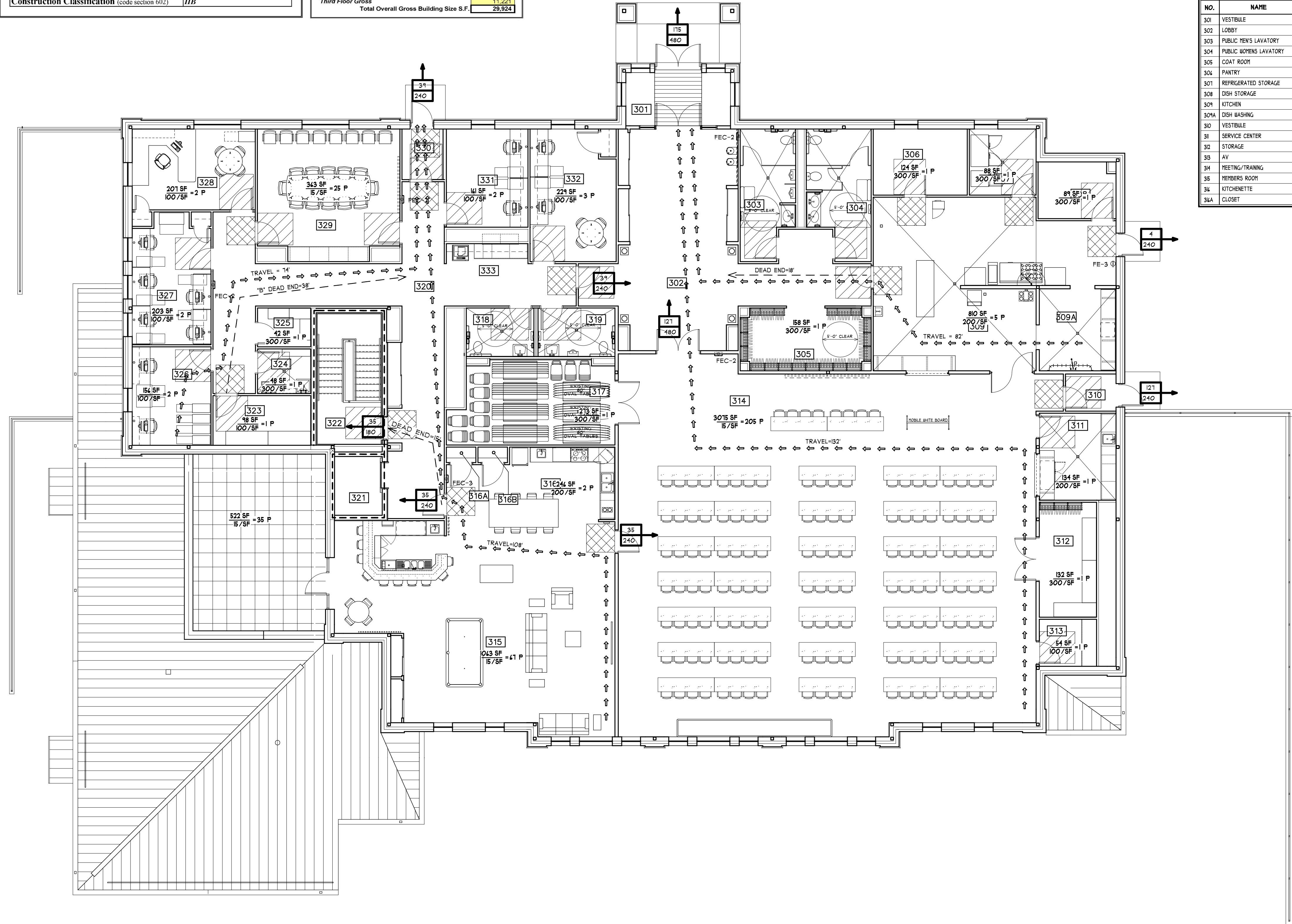
	10	15
A-1	28,500	9,500
A-2	28,500	9,500
B	69,000	23,000
R-1	48,000	16,000
S-1	52,500	17,500
S-2	78,000	26,000

Section 903.2: Sprinkler systems will be required as follows:
A-2 Fire area exceeds 5,000 s.f. OR occupant load 100 or more OR other than level of exit discharge
A-3 Fire area exceeds 12,000 s.f. OR occupant load 300 or more OR other than level of exit discharge
B Not Required
R-1 Required through out entire building
S-1 Fire area exceeds 12,000 s.f. OR area exceeds 5,000 s.f. is used for the storage of commercial motor vehicles
S-2 Not Required

2020 Building Code of New York State Miscellaneous Code Information	
Use Groups (code section 302)	A-2, A-3, B, R-1, S-1, S-2
Occupancy Classification (code section 508.3) Mixed Use Nonseparated	
Incidental Uses (code section 509)	None
Construction Classification (code section 602)	II-B

Code Areas / Occupant Loads			
2020 Building Code of New York State			
[Building Areas (per code section 903.1) Used for Building Size Calculations * See Allowable Building Area Worksheet			
First Floor Net (exclusive of exterior walls)			12,640
Second Floor Net (exclusive of exterior walls)			4,355
Third Floor Net (exclusive of exterior walls)			10,585
Total Building Net Area S.F.			27,580
Gross/Net Floor Areas (per code section 1004 & Table 1004.5) Used for means of egress occupancy calculations			
Occupancy	Area	S.F. Per Occupant	Occupant Load
First Floor			
Apparatus Bay	6116 sf @	200 gross	31
Office Spaces	167 sf @	150 gross	2
Bunk Rooms	508 sf @	50 gross	11
Day Room	578 sf @	15 net	39
Storage/Mechanical	2229 sf @	300 gross	8
Exercise Room	1044 sf @	50 gross	21
Locker Rooms	149 sf @	50 gross	3
Second Floor			
Storage/Mechanical	1768 sf @	300 gross	6
Mezzanine (adds to bay)	2207 sf @	300 gross	8
Third Floor			
Office Spaces	1450 sf @	150 gross	1
Storage/Mechanical	920 sf @	300 gross	4
Members Room	1063 sf @	15 net	71
Meeting/Training	3075 sf @	15 net	205
Kitchen	844 sf @	200 gross	5
Total First Floor Occupants			115
Total Second Floor Occupants			14
Total Third Floor Occupants			286
Total Occupants			415
Overall Building Size (inclusive of exterior walls) Used for zoning footprint and materials estimates			
First Floor Gross			13,659
Second Floor Gross			5,044
Third Floor Gross			11,221
Total Overall Gross Building Size S.F.			29,924

2020 Building Code of New York State													
See Code Table 2003.1	OCCUPANCY USE*	POPULATION	WC'S MEN	WC'S WOMEN	LAVS	FOUNTAINS	Sec. 434)	SINK	UNISEX LAV	UNISEX WC	SHOWER MEN	SHOWER WOMEN	
1ST FLOOR ROOMS													
Apparatus Bay	S-2	31	0.16	0.16	0.31	0.03	0.08	1.00					
Office Spaces	B	2	0.04	0.04	0.05	0.02	0.02						
Bunk Rooms	R-1	11	0.55	0.55	1.10	0.11	0.28						
Day Room	A-2	39	0.26	0.26	0.20	0.08	0.17						
Storage/Mechanical	S-2	8	0.04	0.04	0.08	0.01	0.02						
Exercise Room	B	21	0.42	0.42	0.53	0.21	0.21						
Locker Rooms	B	3	0.06	0.06	0.08	0.03	0.03						
SUBTOTAL 1ST FLOOR		115	1.53	1.53	2.34	0.49	0.81	1.00	0.00	0.00	0.00	0.00	0.00
2ND FLOOR ROOMS													
Storage/Mechanical	S-2	6	0.03	0.03	0.06	0.01	0.02						
Mezzanine (adds to bay)	S-2	8	0.04	0.04	0.08	0.01	0.02						
SUBTOTAL 2ND FLOOR		14	0.07	0.07	0.14	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00
3RD FLOOR ROOMS													
Office Spaces	B	1	0.02	0.02	0.03	0.01	0.01	1.00					
Storage/Mechanical	S-2	4	0.02	0.02	0.04	0.00	0.01						
Members Room	A-2	71	0.47	0.47	0.36	0.14	0.32						
Meeting/Training	A-3	205	0.82	1.58	1.03	0.41	0.55						
Kitchen	A-2	5	0.03	0.03	0.03	0.01	0.02						
SUBTOTAL 3RD FLOOR		286	1.37	2.12	1.47	0.58	0.91	1.00	0.00	0.00	0.00	0.00	0.00
TOTAL OF FIXTURES REQUIRED		415	3	4	4	2	1	2	0	0	1	1	1
* Occupancy, Accessory Use or Use Group (NOTE ALLOWABLE CHOICES A-2, A-3, B, R-1, S-1, S-2)													
TOTAL OF FIXTURES PROVIDED			4	4	9	4	3	2	1	1	2	1	1



CODE PLAN LEGEND	
EXIT CAPACITY:	
	ACTUAL NUMBER OF OCCUPANTS USING DOOR OR STAIR
	MAXIMUM ALLOWABLE EGRESS CAPACITY OF DOOR OR STAIR
ROOM OCCUPANCY LOAD:	
	AREA IN SQUARE FEET
	ACTUAL OCCUPANT LOAD PER ROOM
	OCCUPANT LOAD FACTOR
	PATH OF TRAVEL & DISTANCE TO EXIT
	DIRECTION OF TRAVEL
SEPARATIONS ARE DESIGNATED AS FOLLOWS:	
	1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
	1/2 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
	1 HOUR FIRE-RESISTANCE RATED FLOOR/CEILING ASSEMBLY ABOVE AND/OR 243 DESIGN No. N-01
	DOOR CLEARANCE FLOOR AREAS
NOTE: AT ALL LOCATIONS OF RATED WALLS, PROVIDE SIGNS ABOVE THE CEILING AT 50 FEET ON CENTER STATING "FIRE AND/OR SMOKE BARRIER PROTECT ALL OPENINGS" & PROVIDE HOUR RATING REQUIRED	

3rd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
301	VESTIBULE	305	CLOSET
302	LOBBY	306	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	307	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	308	MEN'S LAVATORY
305	COAT ROOM	309	CORRIDOR
306	PANTRY	310	ELEVATOR
307	REFRIGERATED STORAGE	311	STAIR
308	DISH STORAGE	312	FIRE PREVENTION STORAGE
309	KITCHEN	313	JANITOR
310	DISH WASHING	314	HOUSEKEEPING
311	VESTIBULE	315	ASSISTANT CHIEF'S
312	SERVICE CENTER	316	JUNIOR OFFICERS
313	STORAGE	317	CHIEF'S OFFICE
314	AV	318	CONFERENCE ROOM
315	MEETING/TRAINING	319	VESTIBULE
316	MEMBERS ROOM	320	PRESIDENT/V.P. OFFICE
317	KITCHENETTE	321	BUSINESS OFFICE
318	CLOSET	322	WORK AREA

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NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY	
DATE	DESCRIPTION

3RD FLOOR CODE PLAN

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

DWG. BY: PFS/JDA

DWG. DATE: 8/14/2020

STATUS: BID DRAWINGS

A022

PLOT TIME: 10:51 AM