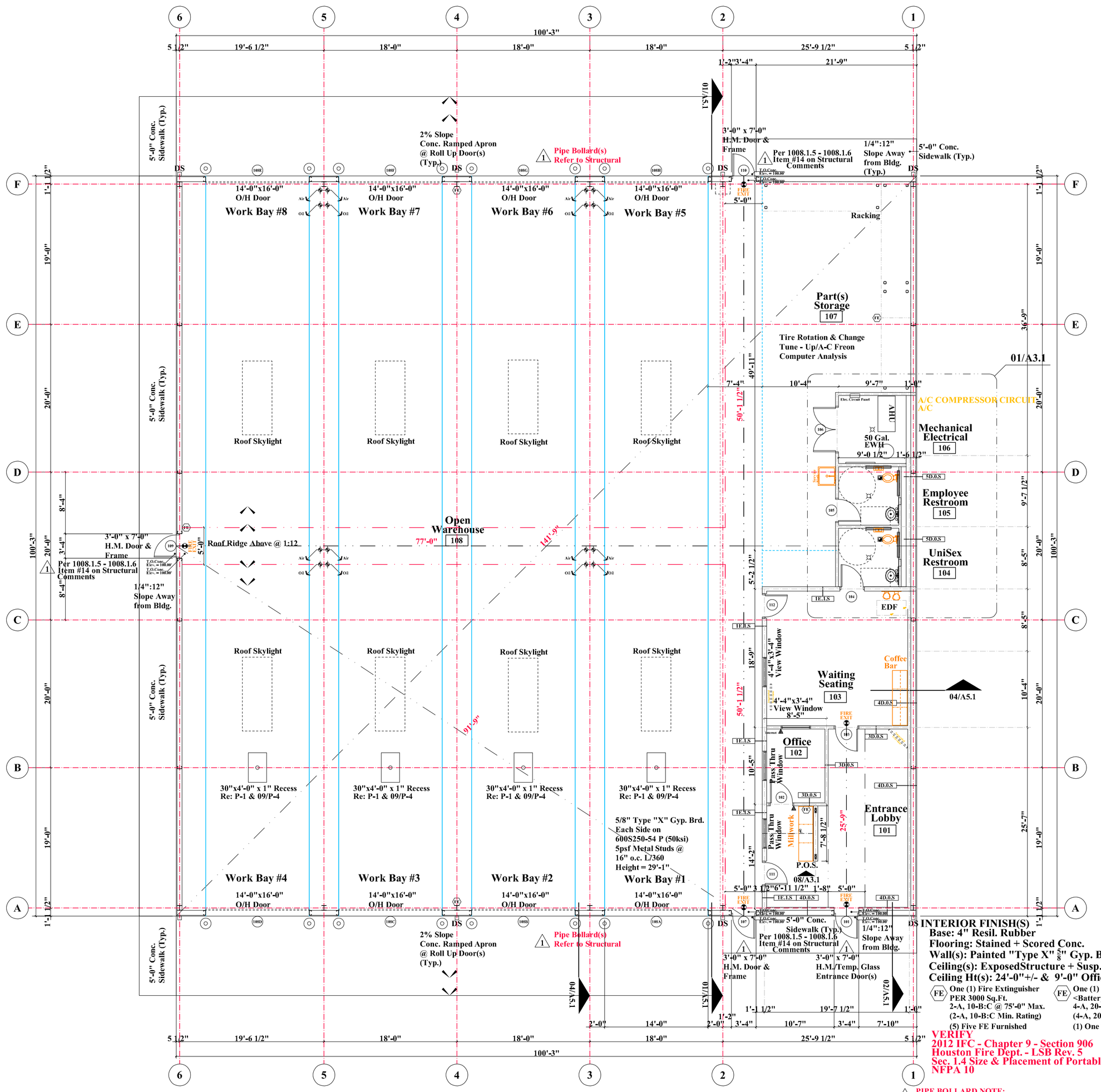

ITEM #16 on Structural Comment(s)

△1

Figure 903.2: SUMMARY of OCCUPANCY
STORAGE GROUP: S-1 Motor Vehicle REPAIR GARAGE
Table 1004.1.2: MAX. FLOOR AREA ALLOWANCES PER OCCUPANT

BUILDING TOTAL: 10,000 SQ. FT.
Office: 1,095 Sq.Ft./100 gross = 11 occ
Storage & Part(s): 853 Sq.Ft./300 gross = 3 occ
(8) Work Bay(s): 7,452 Sq.Ft./200 gross = 38 occ
Fire Exit Corridor: 600 Sq.Ft.
TOTAL OCCUPANCY: 52 occ

INTERIOR FINISH(S)
Base: 4" Resil. Rubber
Flooring: Stained + Scored Conc.
Wall(s): Painted "Type X" 5/8" Gyp. Brd.
Ceiling(s): ExposedStructure + Susp. Acoust.
Ceiling Ht(s): 24'-0"+/- & 9'-0" Office Area

FE One (1) Fire Extinguisher PER 3000 Sq.Ft. 2-A, 10-B:C @ 75'-0" Max. (2-A, 10-B:C Min. Rating) (5) Five FE Furnished

FE One (1) Fire Extinguisher <Battery Charger Station> 4-A, 20-B:C @ 20'-0" Max. (4-A, 20-B:C Min. Rating) (1) One FE Furnished - Battery Charger

VERIFY
2012 IFC - Chapter 9 - Section 906
Houston Fire Dept. - LSB Rev. 5
Sec. 1.4 Size & Placement of Portable Fire Extinguishers
NFPA 10

△1 **PIPE BOLLARD NOTE:**
The Proposed Vehicle Barriers (Pipe Bollards) shall be designed as per Section 1607.8.3, to resist a single load of 6,000 pounds applied horizontally in any direction to the barrier system and shall be Sealed, Signed and Dated by a Professional Engineer registered in the State of Texas. The load shall be assumed to act at a minimum height of 18 inched above the floor or finish grade. The signed live-load rating is on the Structural 01/S1.1. REFER to the STRUCTURAL

01 Re: Rigid Metal Bldg. Shop Drawing(s)
ARCHITECTURAL Design Schematic
PROPOSED FLOOR PLAN
SCALE: 1/8"=1'-0"

XXX	X	XXX	-	XX
Member Depth	Member Type	Flange Width		Gauge

MEMBER DEPTHS	MEMBER TYPE	MEMBER FLANGE WIDTH
<250> 2 1/2"	S - Stud or Joist Section	1 3/8" - 137
<350> 3 1/2"	T - Track Section	1 5/8" - 162
<362> 3 5/8"	U - Channel Section	2" - 200
<400> 4"	F - Furring Channel Section	2 1/2" - 250
<550> 5 1/2"		3" - 300
<600> 6"		
<800> 8"		
<1000> 10"		
<1200> 12"		
<1400> 14"		

GAUGE CHART

Mils	Gauge	Color	KSI	Std. Coat
25	None	33	G40	
22	Black	33	G40	
20	Pink	33	G40	
20	White	33	G60	
18	Yellow	33	G60	
16	Green	50	G60	
14	Orange	50	G60	
12	Red	50	G60	
10	Blue	50	G60	

Structural Framing
GP60 AISI S200 ASTM C955
Non-Structural Framing
G40 AISI S200 ASTM C645
<Verify Lateral Bracing Height(s)>

MATERIAL

1. Rectangular HSS: ASTM A500 Grade B Fy=46 ksi
2. Round HSS: ASTM A500 Grade B Fy=42 ksi
3. W Shape: ASTM A992
4. WT Shape: ASTM A992
5. C Shape: ASTM A36 Fy=36 ksi
6. L Shape: ASTM A36 Fy=36 ksi
7. Steel Plate: ASTM 572 Grade 50 Fy=50ksi
8. MC: ASTM A36 Fy=36 ksi
9. Other Steel: ASTM A992 OR ASTM A572 Grade 50

HIGH R-VALUE INSULATION

2.75" =	R-8
3" =	R-10
3.5" =	R-11
4" =	R-13
6" =	R-19
8" =	R-25
9.5" =	R-30
3" + 6" =	R-29
3.5" + 6" =	R-30
4" + 6" =	R-32
3" + 8" =	R-35
6" + 6" =	R-38
3" + 9.9" =	R-40

Rev. #	Revision Description
△1 May 2020	REVISIONS as per C of H Plan Review Comments

RAPID DIESEL TRUCK SERVICE
Mr. Jaspreet Singh
6075 E. Little York Road
Houston, Texas 77016
Phone: 917-544-1550

DRAWN BY: L. Gene Bartlett

Bartlett Design Company
Architectural Structural
Shop Drawings
Construction Building Permit Drawings
Structural Shop-Erection-Fabrication Drawings
1699 Romano Park Lane
Suite 508
Houston, Texas 77090
346-270-1563
Email: Gene@BartlettDesignDrafting.com

100'-3"x100'-3" x 24'-0" E.H.

Ground Level
Proposed Floor Plan

SCALE:	DWG. NO.	REV.
1/8" = 1'-0"	A2.1	△1

DimScale 96
DimText = 9"
LtScale 48
XREF: Base XREF FP
Date: MAY 6, 2019

24" x 36" Sheet-Plot Model Space @ 1/8" = 1'-0" (96) w/ Gene Bold.ctb