

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES



Addendum No. 4

To

INVITATION FOR BIDS (“IFB”)

Solicitation Number: DCAM-23-CS-IFB-0001

Construction Services for FLEET Maintenance Epoxy Flooring Upgrades

Issued: January 20, 2023

This Addendum No.4 is issued on January 20, 2023. Except as modified hereby, the IFB remains unmodified.

Item #1: The questions and answers spreadsheet is hereby attached as **Exhibit A**.

Item #2: Attachment J.2 (Form of Offer Letter & Bid Form) of the IFB is revised and hereby attached as **Exhibit B**.

Item #3: Attachment J.1 (Drawings and Specification) of the IFB is revised and hereby attached as **Exhibit C**.

Item #4: Attachment J.1.1 (Drawings and Specification) to the IFB is established and hereby attached as **Exhibit D**.

By: James H. Marshall
James H. Marshall
DGS Contracting Officer

Date: 1/20/23

- End of Addendum No. 4-

Exhibit A

Questions and answers spreadsheet
(See following page)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES



Exhibit A
Questions & Answers Spreadsheet

No.	Question	DGS Response
1	Please provide the correct quantities for each one of the phases. We have access to phase 1 & 3 portions, but phase 2's quantity appeared to be blocked out.	Mechanical preparation and application of a 3-coat, 30 mils high build coatings system on approximately 28,000 square feet at the above referenced facility.
2	Will epoxy installer have full control of the space for each phase, being able to complete entire floor pertaining to that phase or will customer need to be able to walk into that space creating (2) sections of install per phase?	Yes, the installer will of control of the space/phase that they are working in. DCFD will NOT enter the space/phase while work is being conducted by the installer. The work will be done in 3 phases to accommodate moving of equipment and to maintain operations; The large area will be done in 2 sections and the small bay next to the welding shop will be done by itself.
3	Install can happen during normal hours and will have up to 10 days per phase?	This facility runs 24/7 and therefore work can occur outside of normal work hours if required. Areas not being worked on by the installer will continue to be utilized by DCFD.
4	Floor to be repaired to a smooth surface prior to installing epoxy system, per job walk, concrete is in rough shape and will need spalls and cracks filled properly. What steps is customer requiring addressing the damaged slab?	Conditions of the existing floor are available for all contractors to view in advance of the proposal submission. Contractor is required to deliver complete and operational epoxy floor system in accordance with manufactures requirements. That includes cleaning/grinding/shot blasting/patching/pasting areas in advance of epoxy system application.
5	During the site walk it was apparent that there is areas that are saturated in oil. What steps is each customer required to take to remediate oil saturated slab areas?	The referenced area shall be clean enough to prior to apply the epoxy coating, per the manufacturer's requirements.
6	Will there be any line striping required?	YES
7	Please confirm that cove base is not needed.	As discussed on the site walk, a 1 inch, hand troweled CANT BASE will be required where floor meet outer walls.

8	Are mockups required for slip resistance/ texture?	Yes – 10 x 10 ft mockup will be required in advance of installation of any phases to confirm product application and slip resistance.
9	Epoxy installer to install an isolation strip at transition between walls and floor with caulk to match color of the floor. Please confirm.	As discussed on the site walk, a 1 inch, hand troweled CANT BASE will be required where floor meet outer walls.
10	It is recommended to install a Urethane Cement in Fire Departments/ High Traffic areas. Urethane Cement systems are much more durable, can handle the oil grease issues better than epoxy systems, is a thicker system and will fill in the spalls/ repairs on the slab. Urethane Cement systems are rated to resist moisture issues that are typical for older slabs. Urethane cement systems are known to last decades especially in these heavy duty/ high traffic applications. After site walk it has become clear that Urethane Cement system is the best solution for this project. Is the owner open to allowing manufacturers to recommend a system that will be better suited for this project?	Please bid the systems specified in the procurement documentation. A urethane cement system will NOT be entertained.
11	Could you provide the spec on the Sherwin Williams epoxy product and confirm what the requirement is to prep the floor?	The Sherwin Williams specification is attached as (Attachment J.1.1) to the addendum No. 4.
12	There is only one page of drawings provided and it also has the phasing plan on it. Are we installing the cove base on this job? If we are, I need drawings without the phasing areas covering up the rooms so I can take the cove base off accurately.	Drawings attached to the addendum No. 4.
13	Are there accessible floor drains in each phase?	YES
14	The Epoxy should not be mixed or applied to floors below 55° F...Is the temperature conducive for this application?	The facility has overhead, water source heaters that should keep the ambient temperature of the facility above the manufacture's requirements.

Exhibit B

(Form of Offer Letter & Bid Form)
(See following page)

[Contractor's Letterhead]

[Insert Date]

James H. Marshall
Contracting Officer
Department of General Services
1250 U Street, NW 2nd Floor
Washington, DC 20009

**Reference: Invitation for Bid (“IFB”) DCAM-23-CS-IFB-0001
Construction Services for FLEET Maintenance Epoxy Flooring Upgrades**

Dear Mr. Marshall:

On behalf of [INSERT NAME OF BIDDER] (the “Bidder”), I am pleased to submit this bid in response to the Department of General Services’ (the “Department” or “DGS”) IFB for the Construction Services for Fleet Maintenance Epoxy Flooring Upgrades. The Bidder has reviewed the IFB and the attachments thereto and any addenda thereto (collectively, the “Bid Documents” or “Contract Documents”) and has conducted such due diligence and analysis as the Bidder, in its sole judgment, has deemed necessary in order to submit its bid in response to the IFB. The Bidder’s bid and the Lump Sum Price are based on the Bid Documents as issued and assume no material alteration of the terms of the Bid Documents (collectively, the bid and the Lump Sum Price are referred to as the “Bidder’s Bid”).

The Department is requesting a lump price to perform the required services utilizing the ECONOSURF method described in Attachment J.1. In addition, the Department is requesting an alternate price to perform the required services utilizing the SHERWIN WILLIAMS method described in Attachment J.1.1. For purposes of evaluation, the Department will utilize the sum of the total lump sum amount for CLIN 001 and the total lump sum for the Alternate.

The Bidder’s Bid is as follows:

CLIN	DESCRIPTION	LUMP SUM PRICE
001	Furnish all construction administration, supervision, labor, materials, and equipment necessary to complete the Construction Services for Fleet Maintenance Epoxy Flooring Upgrades in accordance with the Drawings and Specifications (Attachment J.1) ECONOSURF sample.	\$ _____
TOTAL LUMP SUM – CLIN 001		\$ _____
Alternate	Furnish all construction administration, supervision, labor, materials, and equipment necessary to complete the Construction Services for Fleet Maintenance Epoxy Flooring Upgrades in accordance with the Drawings and Specifications (Attachment J.1.1) SHERWIN WILLIAMS sample.	\$ _____
TOTAL LUMP SUM – Alternate		
TOTAL LUMP SUM CLIN 001 + Alternate		\$ _____

Total Lump Sum Price:

The Bidder shall submit a completed Price Schedule Bid Form providing the price for Division and CLIN 001, for Fleet Maintenance Epoxy Flooring Upgrades in accordance with the Drawings and Specifications (Attachment J.1) ECONOSURF sample. The sum of all the prices for each Division Component must equal the Lump Sum Price for CLIN 001.

The Bidder shall submit a completed Price Schedule Bid Form providing the price for Division for the Alternate, Fleet Maintenance Epoxy Flooring Upgrades in accordance with the Drawings and Specifications (Attachment J.1.1) SHERWIN WILLIAMS sample. The sum of all the prices for each Division Component must equal the Lump Sum Price for the Alternate.

The Bidder's Bid is based on and subject to the following conditions:

1. The Bidder agrees to hold its bid open for a period of at least one hundred twenty (120) days after the IFB closing date.
2. Assuming the Bidder is selected by the Department and subject only to the changes requested in paragraph 5, the Bidder agrees to enter into a contract with the Department on the terms and conditions described in the Bid Documents within ten (10) days of the notice of the award.
3. Both the Bidder and the undersigned represent and warrant that the undersigned has the full legal authority to submit this bid form and bind the Bidder to the terms of the Bidder's bid. The Bidder further represents and warrants that no further action or approval must be obtained by the Bidder in order to authorize the terms of the Bidder's bid.
4. The Bidder and its principal team members hereby represent and warrant that they have not: (i) colluded with any other group or person that is submitting a bid in response to the IFB in order to fix or set prices; (ii) acted in such a manner so as to discourage any other group or person from submitting a bid in response to the IFB; or (iii) otherwise engaged in conduct that would violate applicable anti-trust law.
5. The Bidder hereby certifies that neither it nor any of its team members have entered into any agreement (written or oral) that would prohibit any contractor, subcontractor or subconsultant that is certified by the District of Columbia Office of Department of Small and Local Business Enterprises as a Local, Small, Resident Owned or Disadvantaged Business Enterprise (collectively, "LSDBE Certified Companies") from participating in the work if another company is awarded the contract.

This Form of Offer Letter and Bid Form are being submitted on behalf of [INSERT FULL LEGAL NAME, TYPE OF ORGANIZATION, AND STATE OF FORMATION FOR THE BIDDER].

Sincerely,

Company:

Name:

Title:

Date:

Signature:

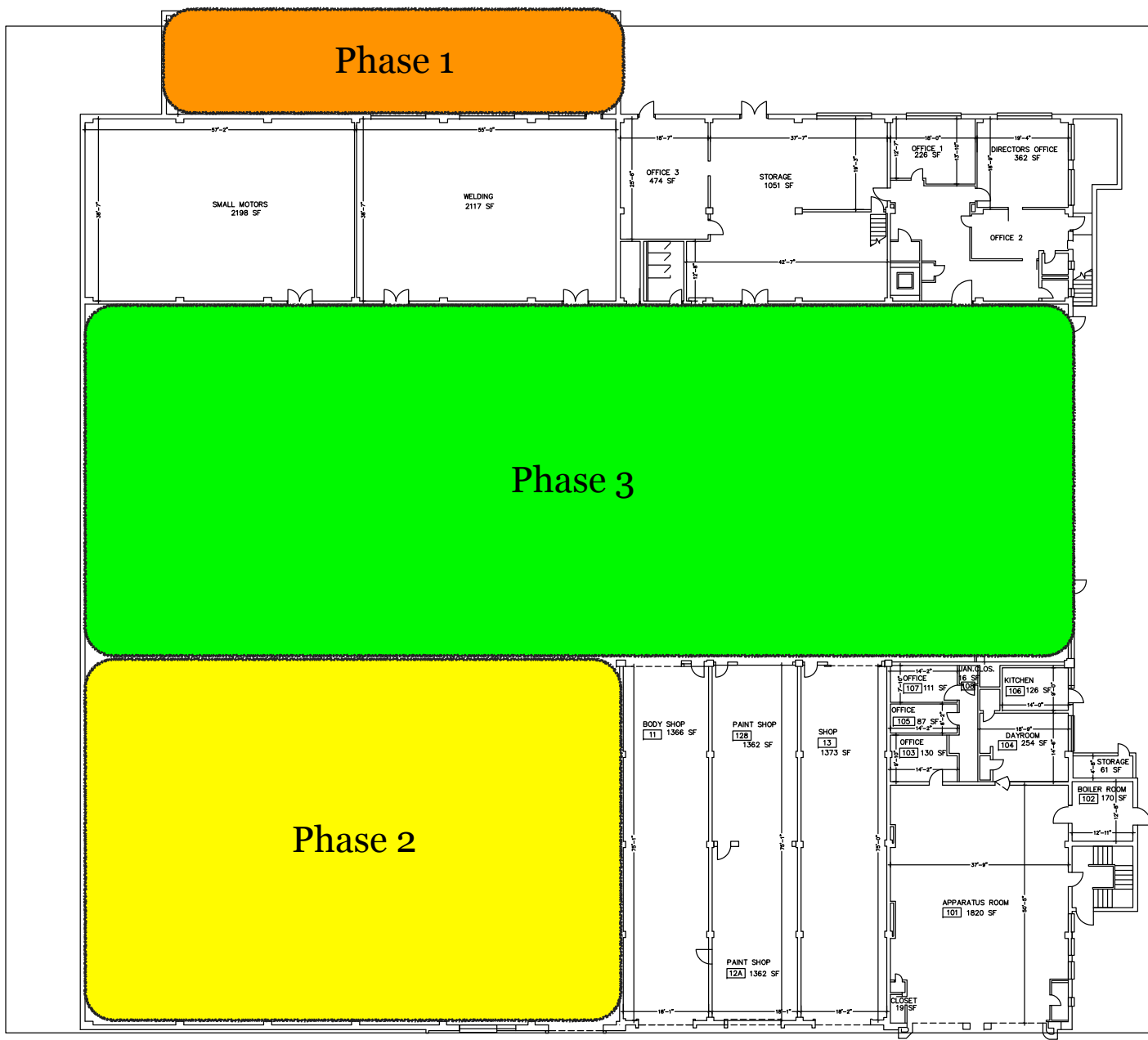
DCAM-23-CS-IFB-0001 Price Schedule Bid Form CLIN 0001		
DIVISION NO.	DESCRIPTION	DIVISION COST
Division 01	General Requirements	
Division 02	Existing Conditions	
Division 03	Concrete	
Division 04	Masonry	
Division 05	Metals	
Division 06	Wood, Plastics, Composites	
Division 07	Thermal and Moisture Protection	
Division 08	Openings	
Division 09	Finishes	
Division 10	Specialties	
Division 11	Equipment	
Division 12	Furnishings	
Division 13	Special Construction	
Division 14	Conveying Equipment	
Division 21	Fire Suppression	
Division 22	Plumbing	
Division 23	Heating, Ventilating, and Air Conditioning (HVAC)	
Division 25	Integrated Automation	
Division 26	Electrical	
Division 27	Communications	
Division 28	Electronic Safety and Security	
Division 31	Earthwork	
Division 32	Exterior Improvements	
Division 33	Utilities	
	Lump Sum Price:	\$ _____

DCAM-23-CS-IFB-0001 Price Schedule Bid Form Alternate		
DIVISION NO.	DESCRIPTION	DIVISION COST
Division 01	General Requirements	
Division 02	Existing Conditions	
Division 03	Concrete	
Division 04	Masonry	
Division 05	Metals	
Division 06	Wood, Plastics, Composites	
Division 07	Thermal and Moisture Protection	
Division 08	Openings	
Division 09	Finishes	
Division 10	Specialties	
Division 11	Equipment	
Division 12	Furnishings	
Division 13	Special Construction	
Division 14	Conveying Equipment	
Division 21	Fire Suppression	
Division 22	Plumbing	
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Division 25	Integrated Automation	
Division 26	Electrical	
Division 27	Communications	
Division 28	Electronic Safety and Security	
Division 31	Earthwork	
Division 32	Exterior Improvements	
Division 33	Utilities	
	Lump Sum Price:	\$ _____

Exhibit C

Attachment J.1 (Drawings and Specifications)
(See following page)

FEMS FLEET - EPOXY FLOOR COATING PROJECT - 3 PHASE PLAN



Providing a barrier between East and central portions of bay floor would allow continual operations at Fleet throughout project.

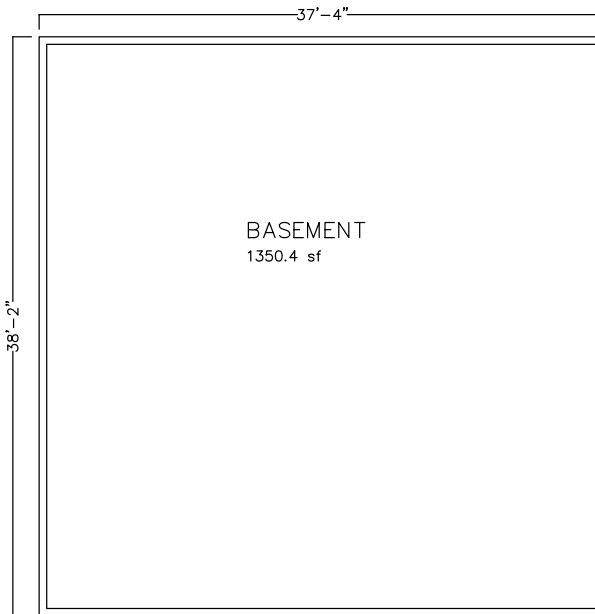
FIRST FLOOR PLAN
SCALE = 1/20" = 1'

FAITHFUL+GOULD CONSTRUCTIVE EXPERTISE	
Project: ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN

GROSS FLOOR AREA = 43710 SF
NET RENTABLE AREA = 42697 SF




HALF STREET S.W.



BASEMENT FLOOR PLAN
SCALE = 1/8" = 1'



	
Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
1	
Sheet Title:	
CO-1	
Description:	
BASEMENT FLOOR PLAN	



FIRST FLOOR PLAN
SCALE = 1/20' = 1'

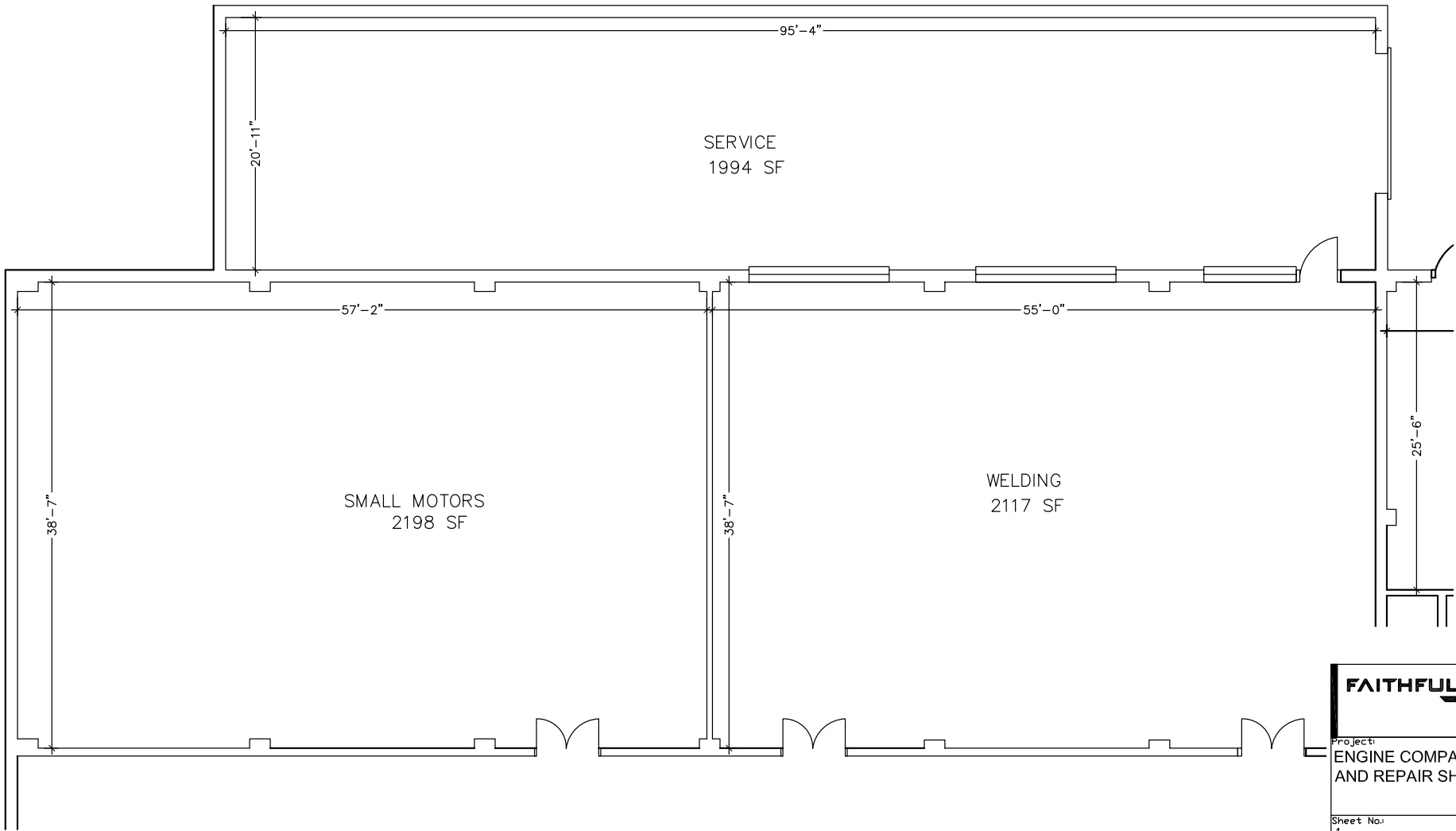


Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN

GROSS FLOOR AREA = 43710 SF
NET RENTABLE AREA = 42697 SF



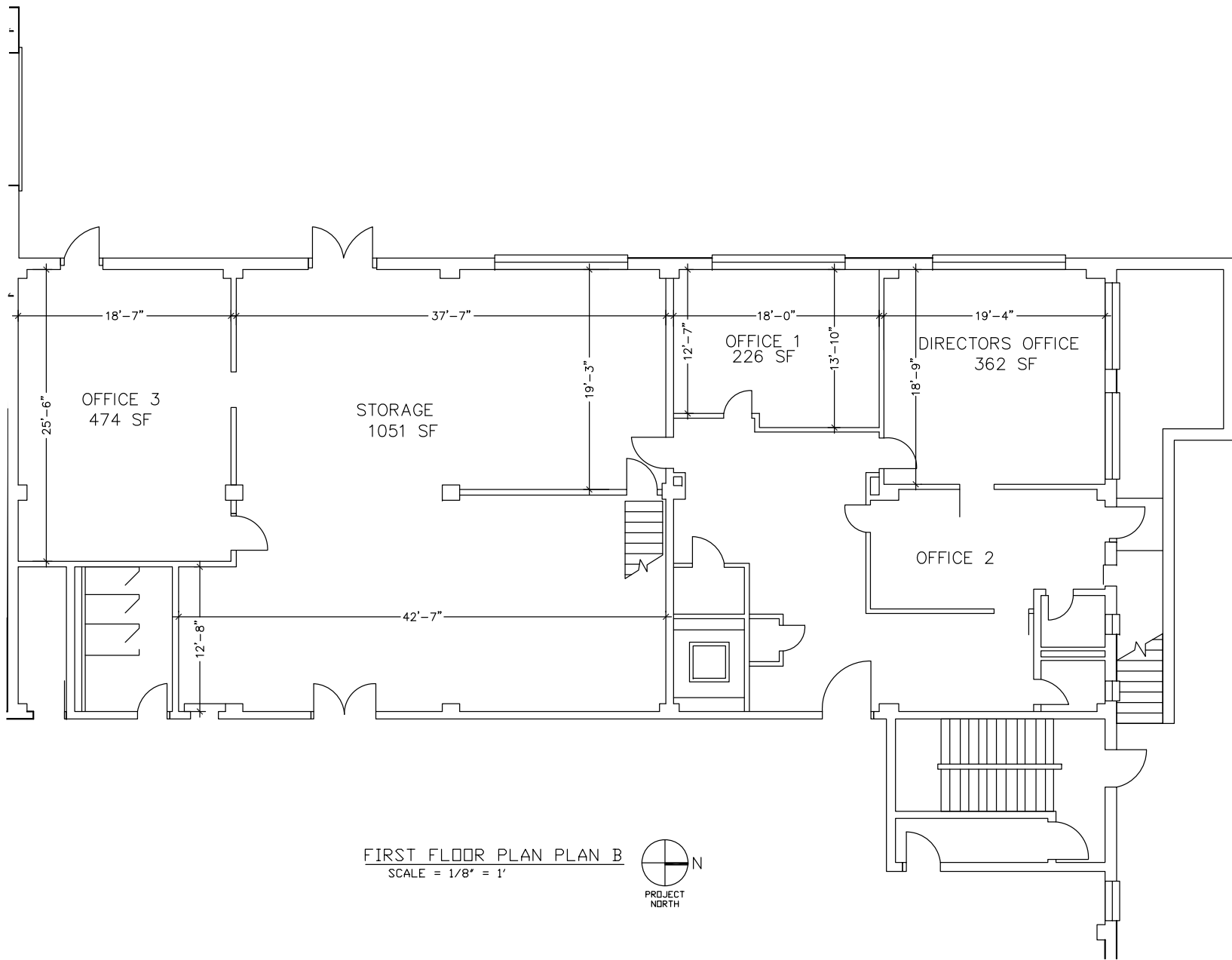
HALF STREET S.W.



FIRST FLOOR PLAN PLAN A
 SCALE = 1/8" = 1'



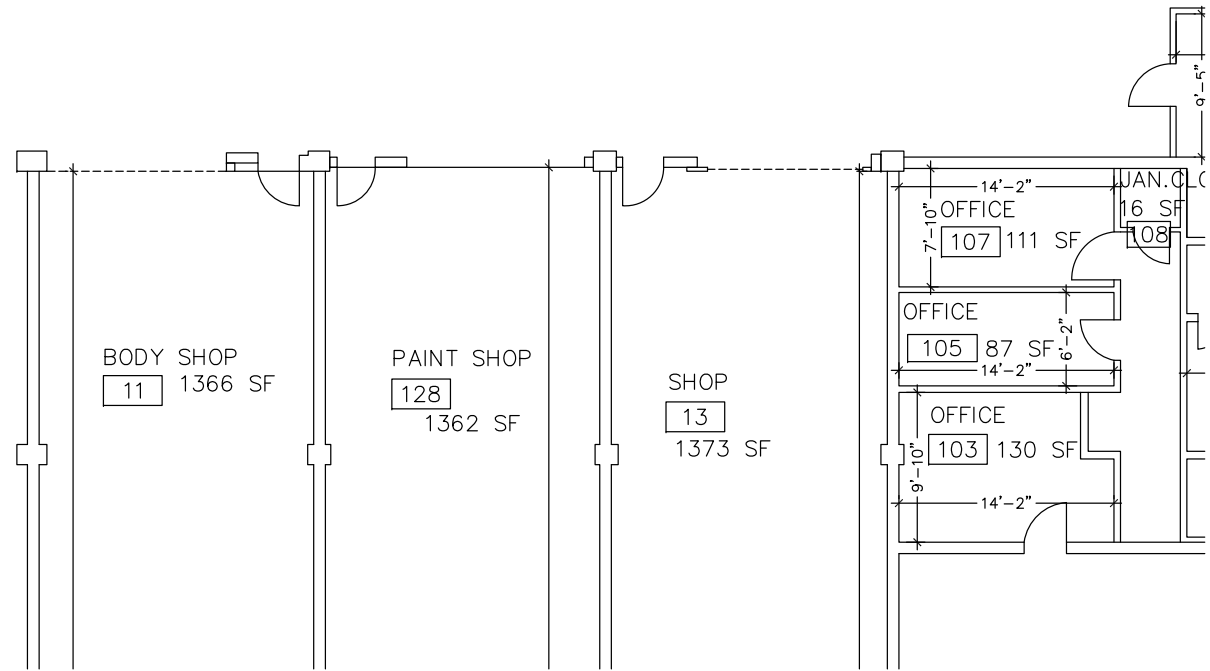
Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN PLAN A



FIRST FLOOR PLAN PLAN B
SCALE = 1/8" = 1'



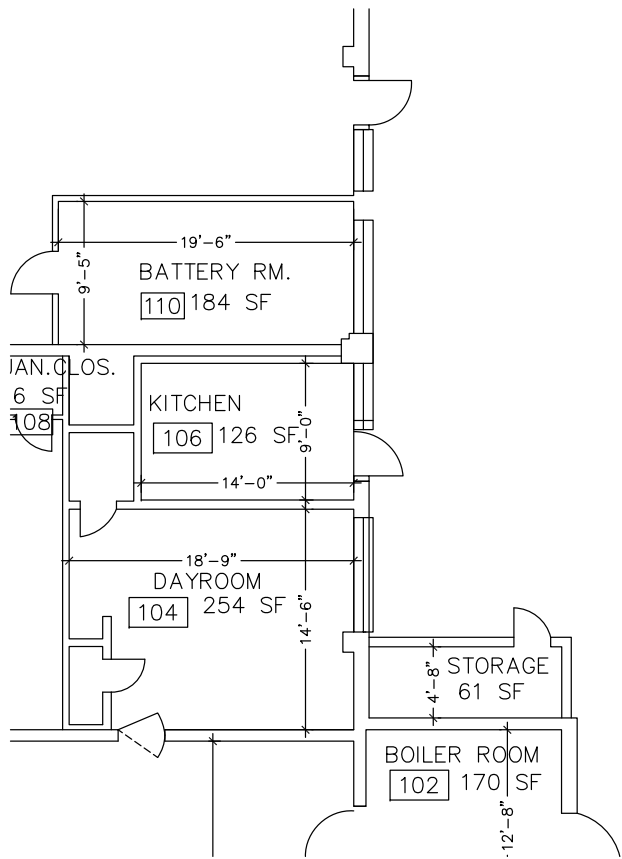
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Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN PLAN B



FIRST FLOOR PLAN PLAN C
SCALE = 1/8" = 1'



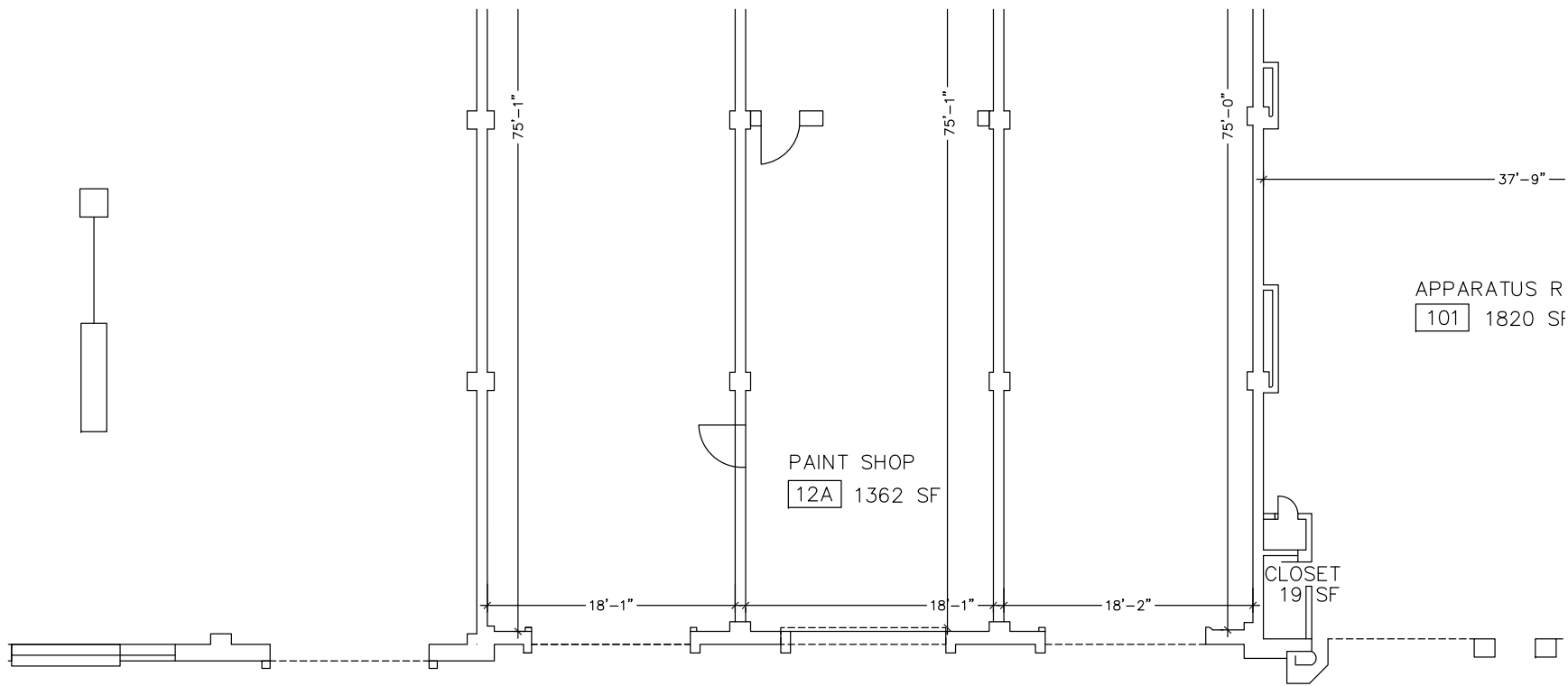
Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN PLAN C



FIRST FLOOR PLAN PLAN D
 SCALE = 1/8" = 1'



Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
1	
Sheet Title:	
CO-1	
Description:	
FIRST FLOOR PLAN PLAN D	



HALF STREET S.W.

FIRST FLOOR PLAN PLAN E
 SCALE = 1/8" = 1'

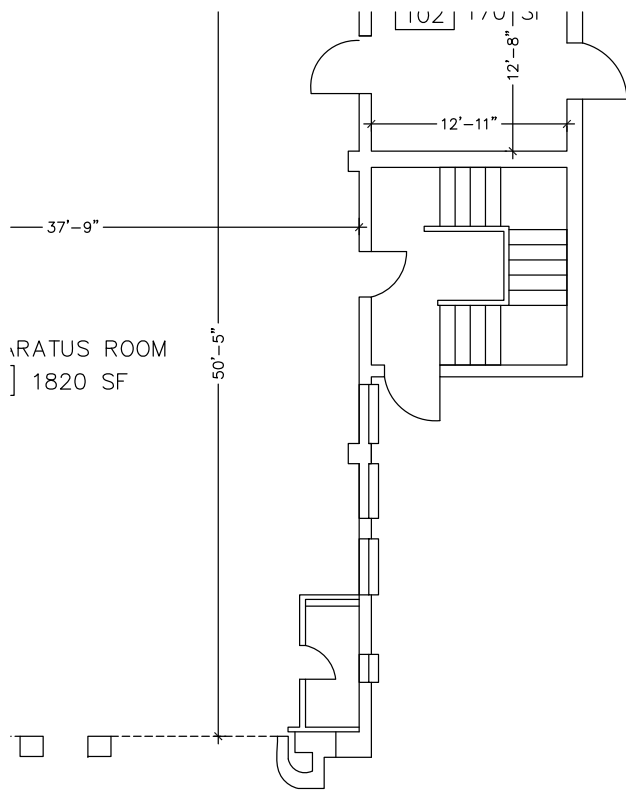


APPARATUS R
 101 1820 SF

PAINT SHOP
 12A 1362 SF

CLOSET
 19 SF

Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	
FIRST FLOOR PLAN PLAN E	

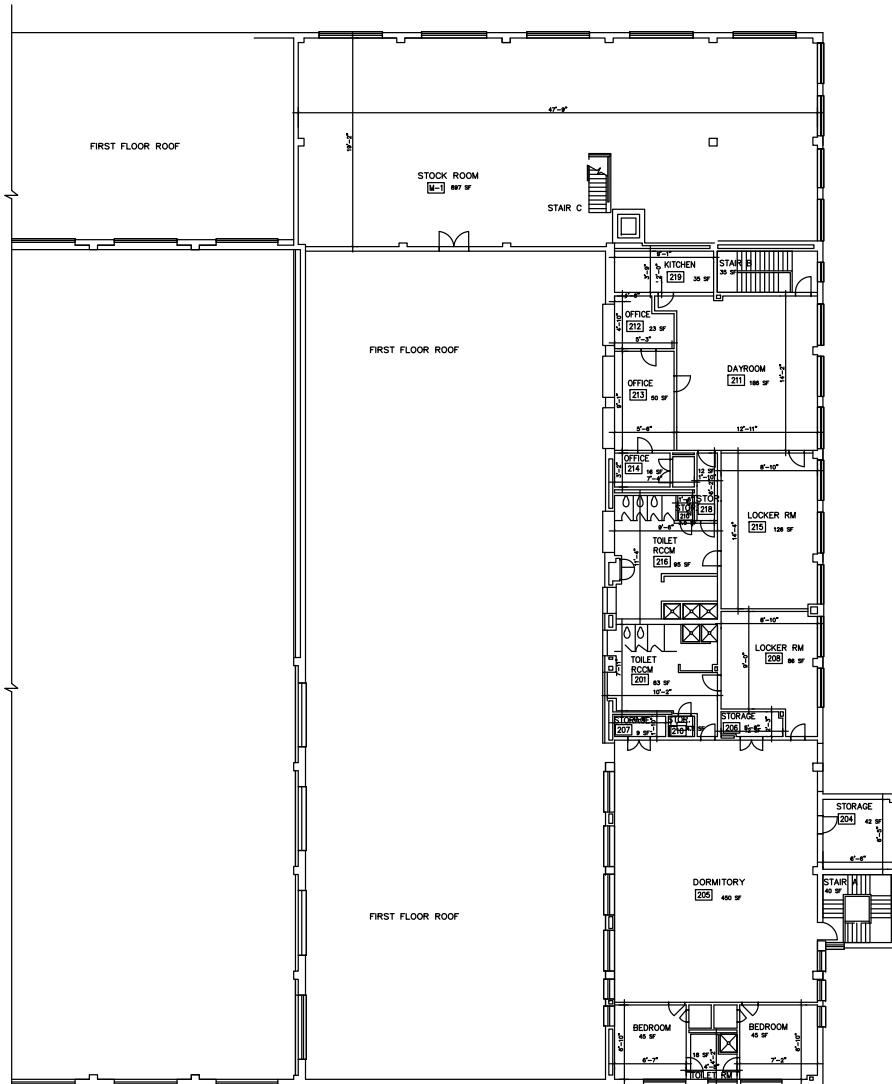


GROSS FLOOR AREA = 43710 SF
 NET RENTABLE AREA = 42697 SF

FIRST FLOOR PLAN PLAN F
 SCALE = 1/8" = 1'



Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
1	
Sheet Title:	
CO-1	
Description:	
FIRST FLOOR PLAN PLAN F	

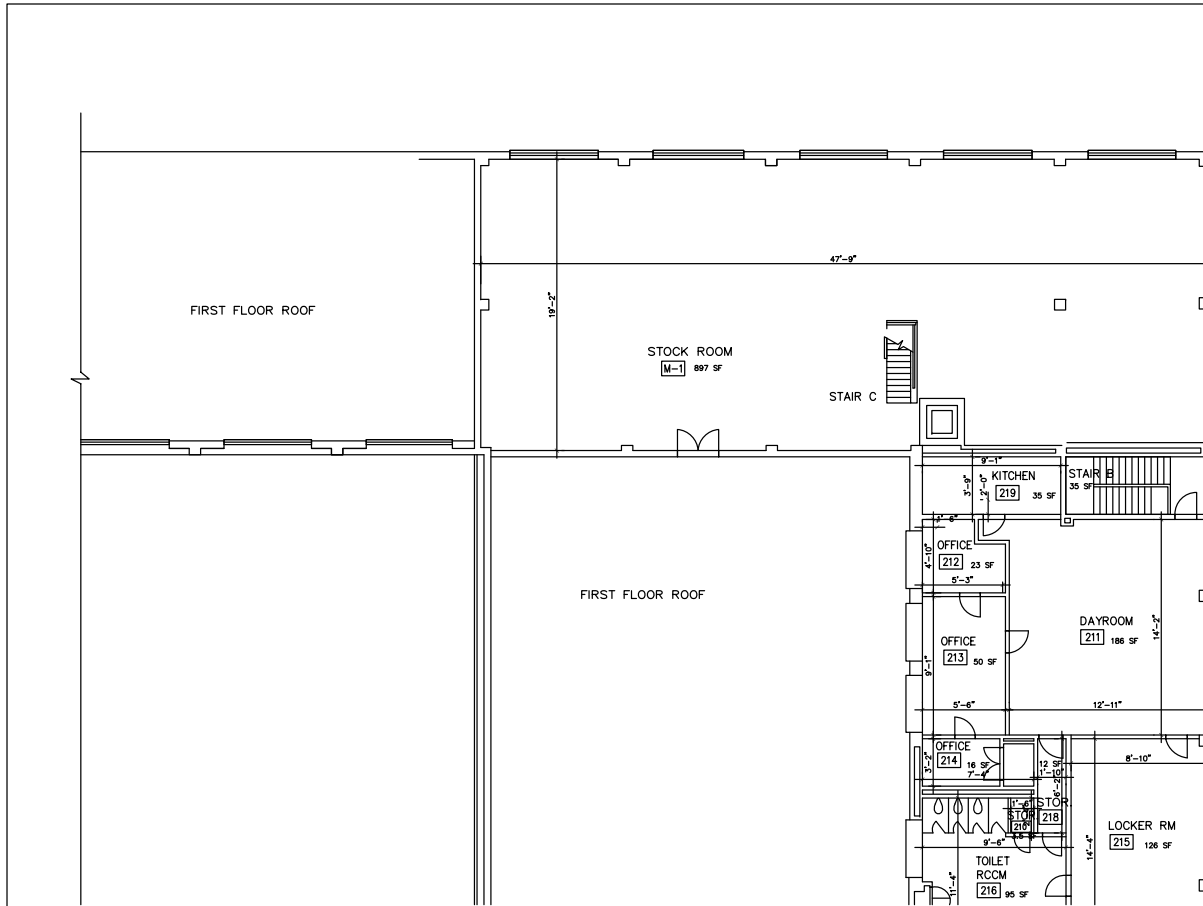


GROSS FLOOR AREA = 7327 SF
 NET RENTABLE AREA = 4607 SF

SECOND FLOOR PLAN
 SCALE = 3/32" = 1'



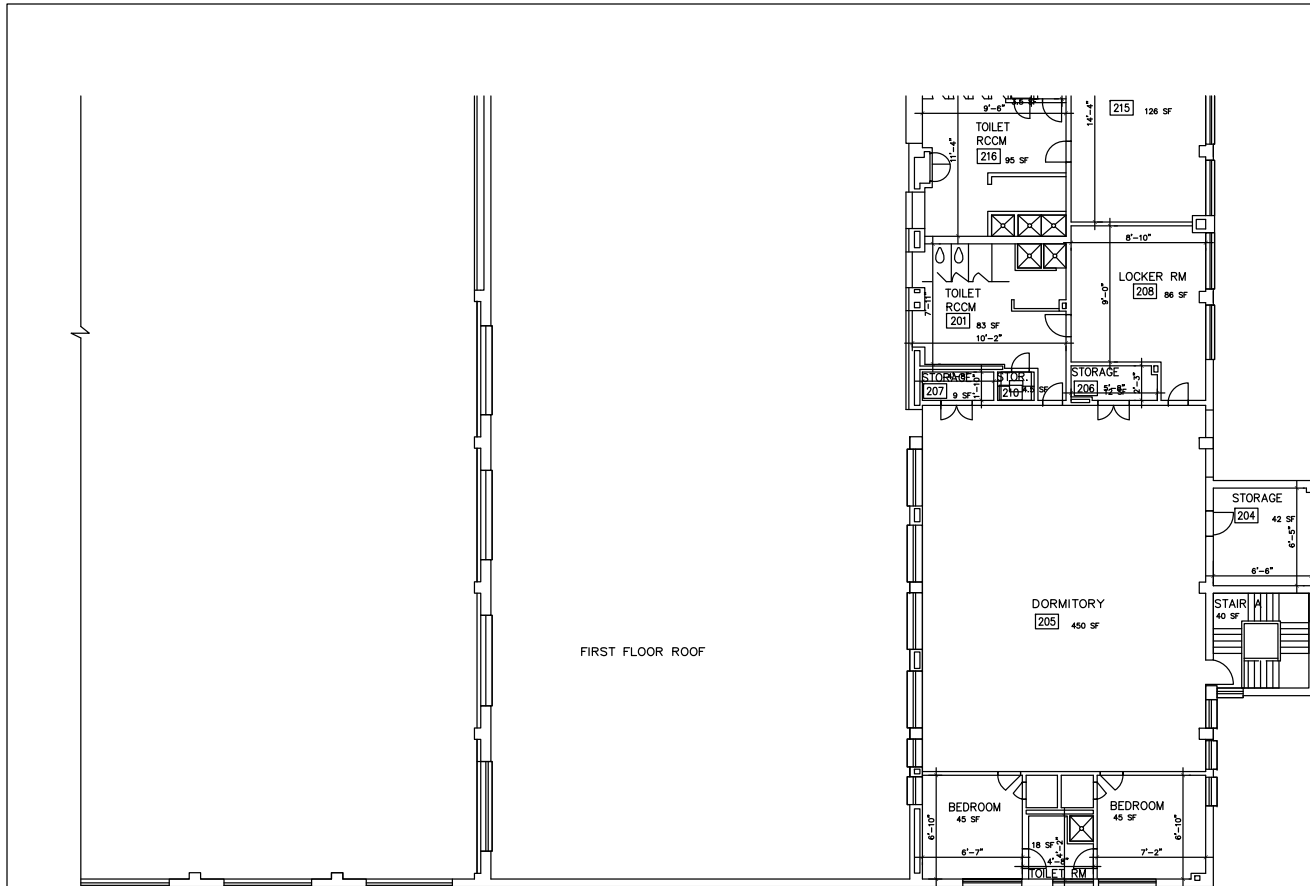
FAITHFUL+GOULD CONSTRUCTIVE EXPERTISE	
Project: ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	2
Sheet Title:	CO-2
Description:	SECOND FLOOR PLAN



SECOND FLOOR PLAN A
SCALE = 1/8" = 1'



Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	2
Sheet Title:	CO-2
Description:	SECOND FLOOR PLAN A



GROSS FLOOR AREA = 7327 SF
 NET RENTABLE AREA = 4607 SF

FIRST FLOOR ROOF

SECOND FLOOR PLAN B
 SCALE = 1/8" = 1'



Project:
**ENGINE COMPANY #7
 AND REPAIR SHOP**

Sheet No.:
21

Sheet Title:
CO-2

Description:
SECOND FLOOR PLAN B

DATA SHEET

DESCRIPTION:

The 30-Mil Epoxy System is a three (3) coat, high build epoxy coating system consisting of two (2) coats of ES-3150 Epoxy applied at a total of 26 mils and a finish coat of a clear or pigmented chemical resistant urethane (ES-5322) top coat, applied at 4-dry mils.

The system is available in clear and colors achievable by mixing the clear ES-3150 Epoxy or clear ES-5322 CRU with one of 16 "specialty" urethane/epoxy Colorants in the field.



RECOMMENDED USES:

The 30-Mil Epoxy Coating System is used on concrete service area floors in auto, truck and aircraft maintenance facilities that are subjected to light to moderate traffic and typical chemical spillages.

FEATURES:

- Squeegee Applied, Self-Leveling
- Easy Mixing Ratio
- 16 Standard Colors
- Can Be Installed Smooth or With Various Degrees of Non-Slip
- VOC Compliant
- Good Chemical Resistance-Resists Brake Fluid, Battery Acid and Skydrol 500B.
- Good Abrasion Resistance

PACKAGING:

The ES-3150 Epoxy Coating is available in 15-gal and 165-gal units for easy job-site mixing and application.

The ES-5322 Chemical Resistant Urethane is available in 15-gal semi-bulk units.

COVERAGE:

The ES-3150 Epoxy is applied at the rate of approximately 115 sq. ft. per gallon per coat, which is about 14 mils. The ES-5322 Chemical Resistant Urethane is applied at the rate of 300 sq. ft. per gal. As with all coatings, coverage is dependent on the smoothness and porosity of the surface and is determined mathematically.

SURFACE PREPARATION:

The substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by steel shot blasting. Cracks and joints should be repaired before the installation of the ES-3150 Epoxy Coating.

If the concrete surface is not prepared properly, product adhesion will fail and warranties will be voided.

FOR OPTIMUM RESULTS:

- For Interior Use Only Where Freeze/Thaw Occurs.
- New Concrete Must Cure For at Least 30 Days @ 70°F
- DO NOT Reduce The ES-3150 Epoxy Coating with Thinner
- DO NOT Use When Relative Humidity Exceeds 75% Indoors.
- DO NOT Apply to Structurally Unsound Surfaces.
- DO NOT Apply heavier than recommended wet film thickness.
- Allow Each Coat to Dry Tack-Free Before Recoating.
- Apply Subsequent Coats Within 24 Hours of Previous Coat.

Review ECONO SURF's Material Safety Data Sheets (MSDS) for this product prior to mixing and applying. In addition, thoroughly review the Application Guide and product labels.

MIXING:

Avoid mixing and application of this product if the floor temperature is below 55°F or above 85°F. Also, avoid application if the relative humidity is higher than 75%. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure.

General Properties:	Data
Shelf Life	Epoxy: 2 Years Urethane: 1-Year
Colors	Clear & Variety with Field Colorants
Induction	None
Coverage	ES-3150 is 114 sq. ft. per gal @ 14 wet mils ES-5322 is 300 sq. ft. per gal @ 5 wet mils
Mixing Ratio: (A to B)	ES-3150 is 1:2 by volume
Application Temp & Humidity	55°F to 85°F @ less than 75% R.H.
Packaging	15-Gal and 165-Gal Bulk Units
Application Methods	Flat or Notched Squeegee & High quality 3/8" nap roller
Cure Rate @ 75 °F	
Recoat	5-6 hrs.
Foot Traffic	10 hrs.
Heavy Traffic	24+ hrs.
Chemical Resistance	72+ hrs.

Test	Method	Typical Values
Bond Strength (psi)	ACI COM #503 (pp. 1139-1141)	400+ w/ concrete failure
% Solids by Volume	ASTM D-1644	100.0
Flash Point	Pensky-Martens CC	>200°F
UV Light Resistance	Q-U-V Accelerated Weather Tester	Good
Hardness-Shore D	ASTM D-2240	84+
VOC	EPA Method 24	0.27 lbs/gal
Gloss (60°)	BYK-Gardner Tri-Gloss	90+
Impact Resistance	ASTM D-2794	>160 in-lbs.
Indentation	MIL-D-3134F	None
Abrasion Resistance (mg) (CS-17 wheel, 1000 GM load, 1,000 cycles)	ASTM D-1044	65
Flammability	ASTM D-635	Self-Extinguishing
Dry Heat Resistance		140 °F Constant 200 °F Intermittent
Water Absorption (%)	ASTM C-413	0.17%

If Colorants are to be used with the ES-3150 Epoxy Coating, or the ES-5322 Urethane, the appropriate quantity of Colorant is first added to the Part-B Resin and mixed in uniformly before the Part-A Hardener is added. Consult an Econo Surf representative for information regarding the quantity of each colorant required.

The ES-3150 Epoxy is mixed at a ratio of 1 part by volume Part-A Hardener to 2-parts by volume of Part-B Resin. A typical batch consists of one gallon of Part-A Hardener to two gallons of Part-B Resin. DO NOT change the ratio of A to B.

The ES-5322 Chemical Resistant Urethane is mixed at a ratio of 1 part by volume Part-A Hardener to 2 parts by volume of the Part-B resin to 1 quart of Colorant.

Blend thoroughly for a minimum of 2 minutes with a "Jiffy" or "Spiral" mixing blade attached to a low-speed (400-600 RPM) electric drill. Take care not to induce air into the material when mixing. This will cause "bubbles" in the coating when applied.

APPLICATION:

1. Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720.
2. Notch squeegee apply 14-mils (114 sq. ft./gallon) 100% solids clear epoxy (ES-3150 Epoxy) and back roll to level using a 3/8" nap, 18" wide, mohair roller.
3. Notch squeegee apply 12-mils (133 sq. ft./gallon) of a clear or pigmented 100% solids epoxy (ES-3150) and back roll to level using a 3/8" nap, 18" wide, mohair roller.
4. Power sand/screen the entire area (if necessary) to remove surface defects such as grit, air bubbles, etc. and tack rag clean to remove fine dust using a floor sander with #80 grit sand paper.
5. Sweep and/or vacuum to remove residual epoxy dust and other contaminants.
6. Broadcast #24 or #36 aluminum oxide safe walk grit onto the cured epoxy basecoat at a rate designated by the customer's representative (typically one-lb. per 1,000 sq. ft.)
7. Roller apply one (1) finish coat of a clear or pigmented, V.O.C. compliant, chemical resistant aliphatic urethane (ES- 5322 CRU) using a 1/2" nap, 18" wide, mohair roller at approximately 5 mils (300 sq. ft./gallon). Avoid excess agitation of the liquids with the roller. This will lessen chances of bubbling of the final film.

POT LIFE:

At 75°F and 50% R.H., the ES-3150 Epoxy in both clear and pigmented systems have a useful working time or pot life of 15-20 minutes. The ES-5322 Chemical Resistant Urethane has a working time of approx. 3-hrs.

Using any product beyond this time will yield variable results and therefore any mixed product beyond the pot life should be discarded.

CLEAN UP:

Application equipment should be cleaned using soap and water or solvent where necessary. Roller covers should be discarded after use.

DISPOSAL:

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Any containers to be thrown out must be disposed in accordance with federal, state and local regulations.

CUSTOMER NOTE:

For information on application situations not covered above, contact the corporate office at 1-302-322-4920

ECONO SURF

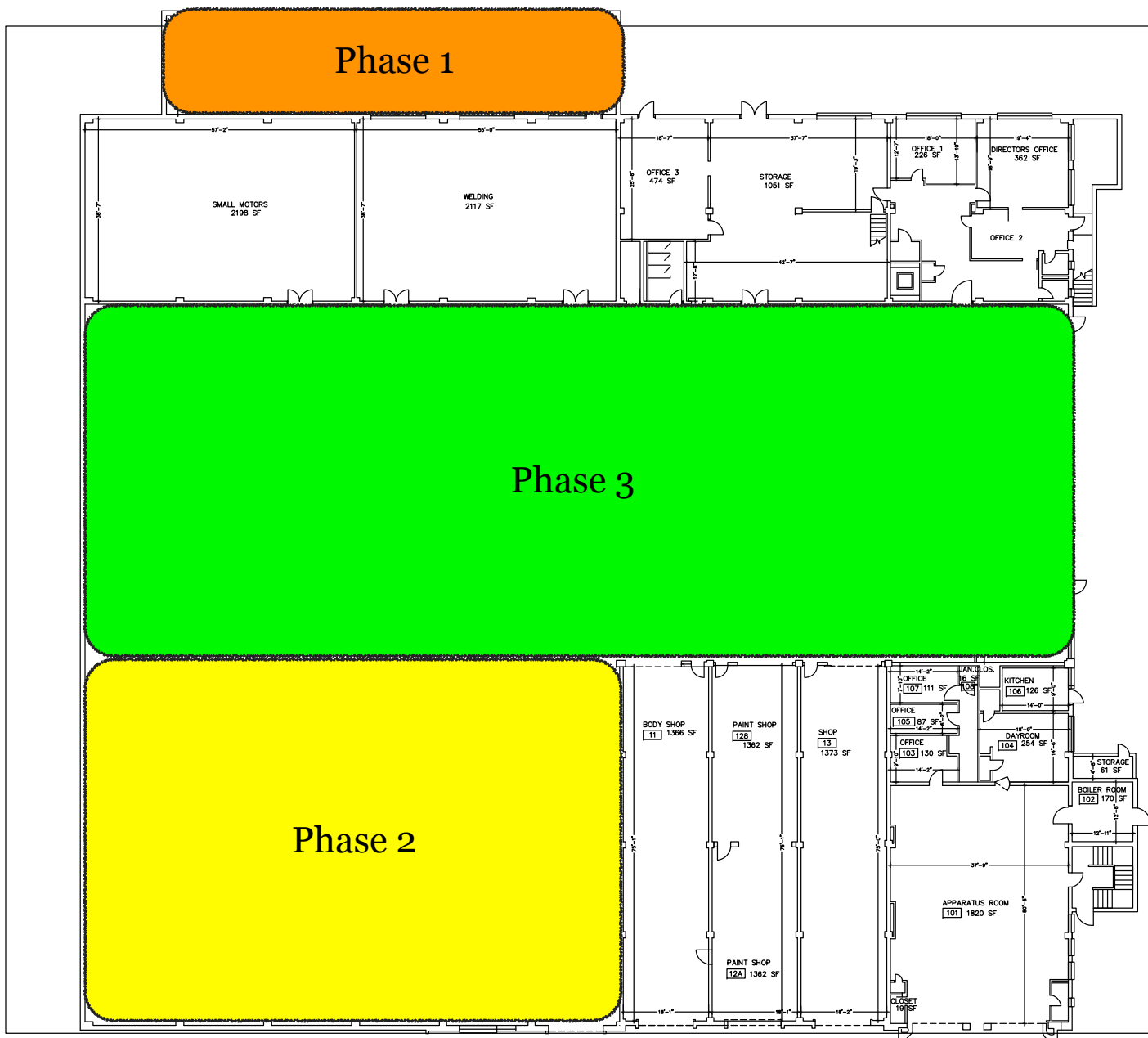
Corporate Headquarters: 110 J&M Drive, P. O. Box 732, New Castle, DE 19720

PHONE (302) 322-4920 • FAX (302) 322-4981

Exhibit D

Attachment J.1.1 (Drawings and Specifications)
(See following page)

FEMS FLEET - EPOXY FLOOR COATING PROJECT - 3 PHASE PLAN



Providing a barrier between East and central portions of bay floor would allow continual operations at Fleet throughout project.

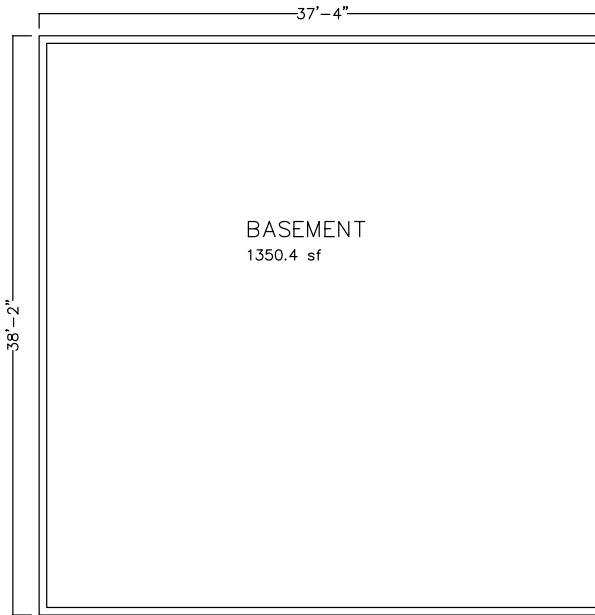
FIRST FLOOR PLAN
SCALE = 1/20" = 1'

FAITHFUL+GOULD CONSTRUCTIVE EXPERTISE	
Project: ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN

GROSS FLOOR AREA = 43710 SF
NET RENTABLE AREA = 42697 SF




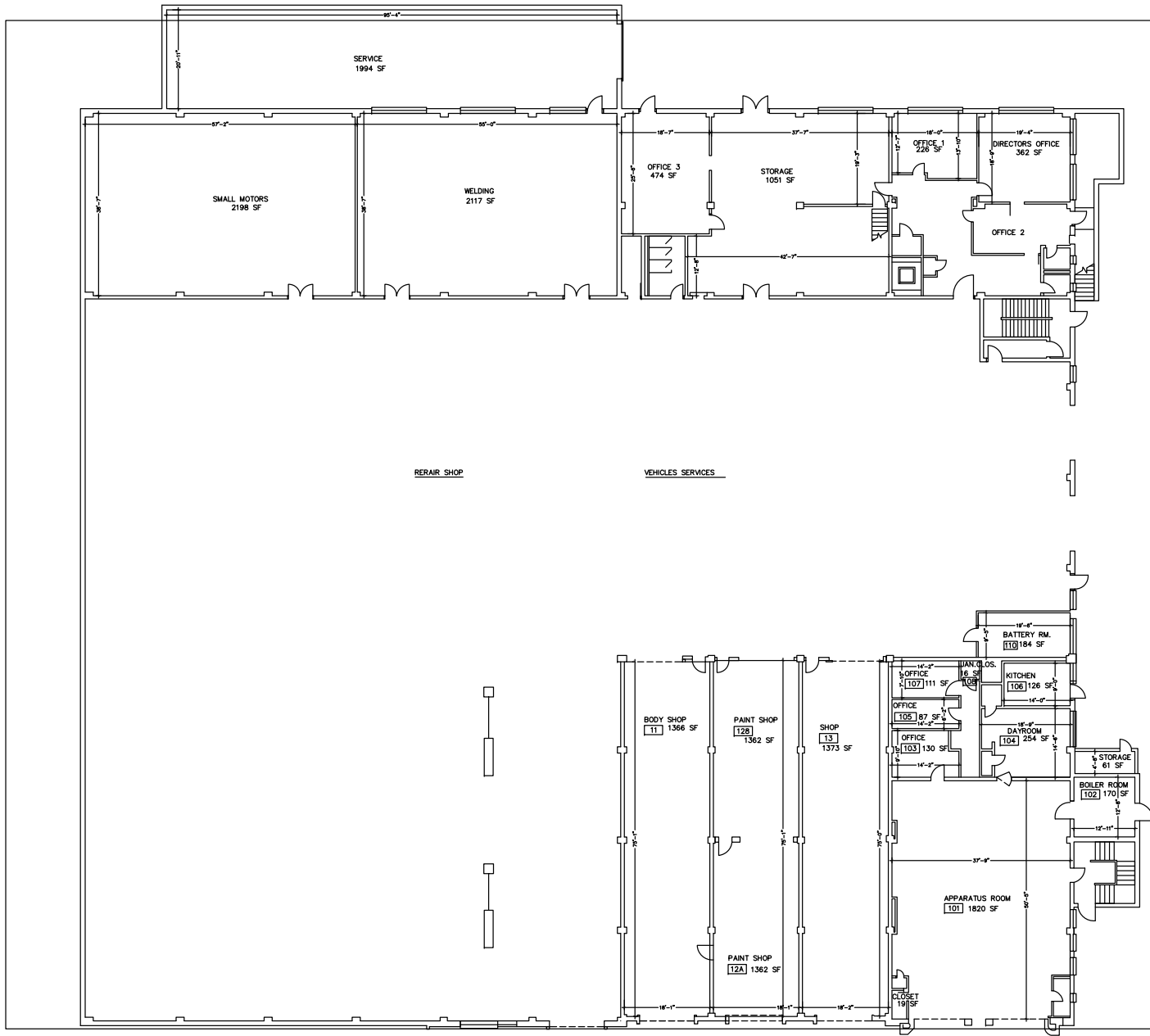
HALF STREET S.W.



BASEMENT FLOOR PLAN
SCALE = 1/8" = 1'



	
Project: ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	BASEMENT FLOOR PLAN



FIRST FLOOR PLAN
SCALE = 1/20' = 1'

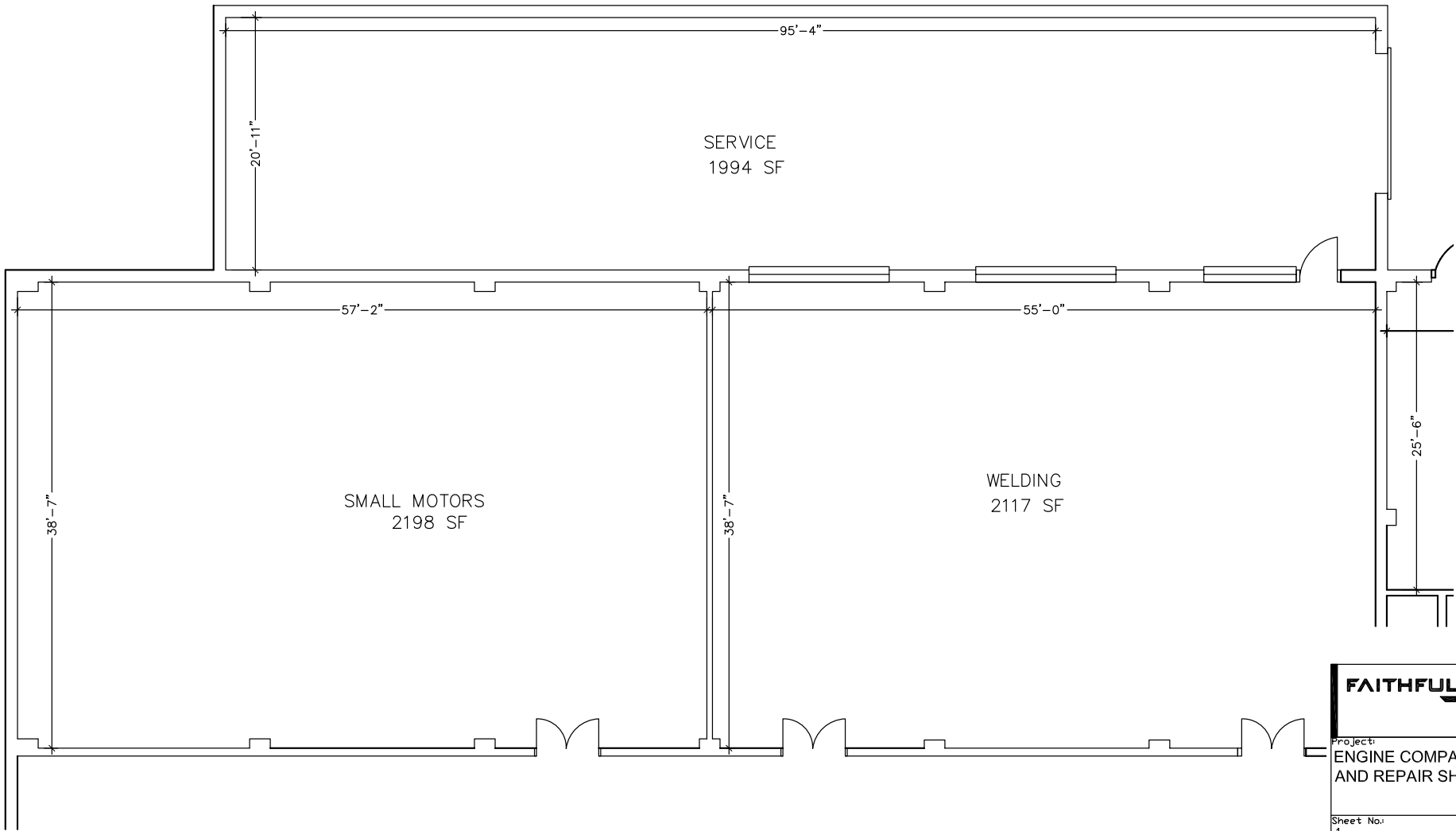


Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	1
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Description:	FIRST FLOOR PLAN

GROSS FLOOR AREA = 43710 SF
NET RENTABLE AREA = 42697 SF



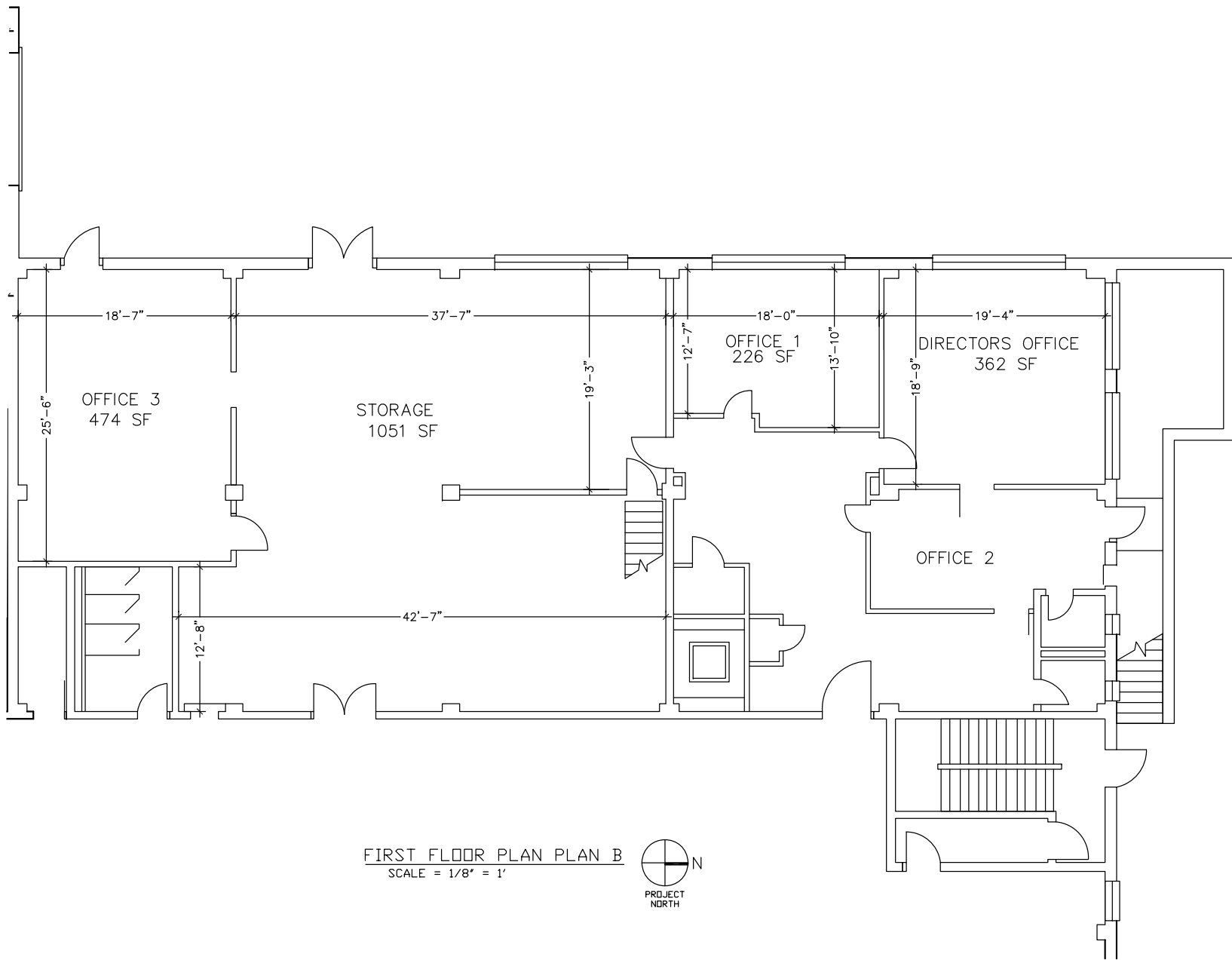
HALF STREET S.W.



FIRST FLOOR PLAN PLAN A
 SCALE = 1/8" = 1'



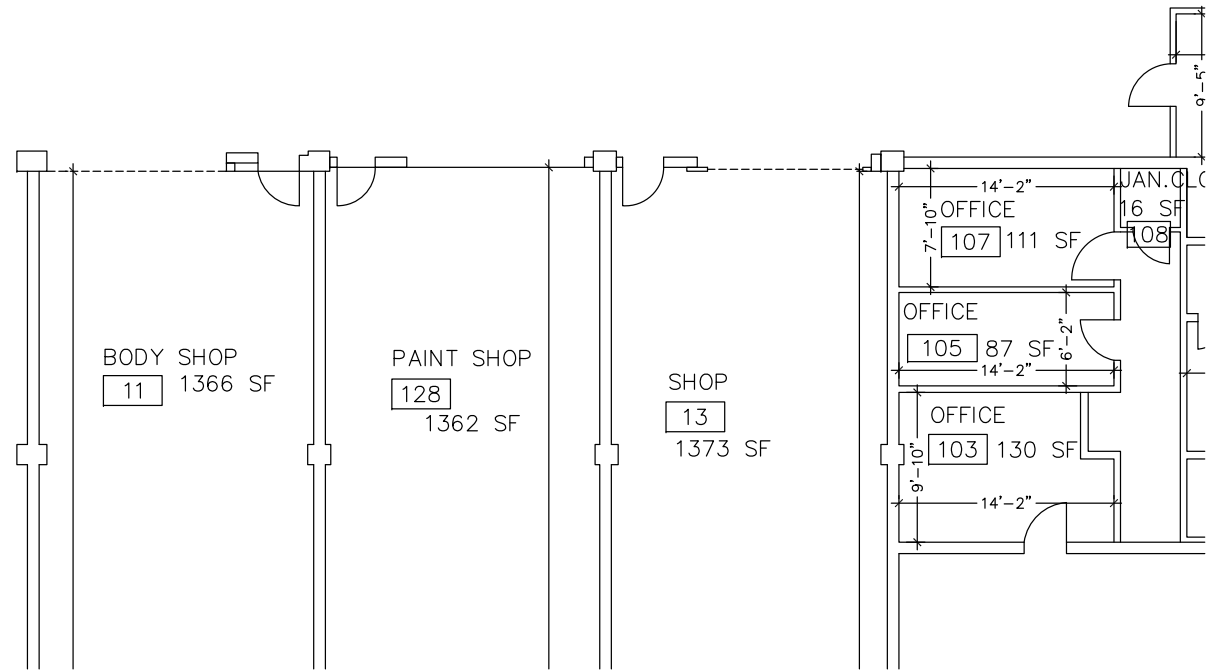
Project: ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description: FIRST FLOOR PLAN PLAN A	



FIRST FLOOR PLAN PLAN B
 SCALE = 1/8" = 1'



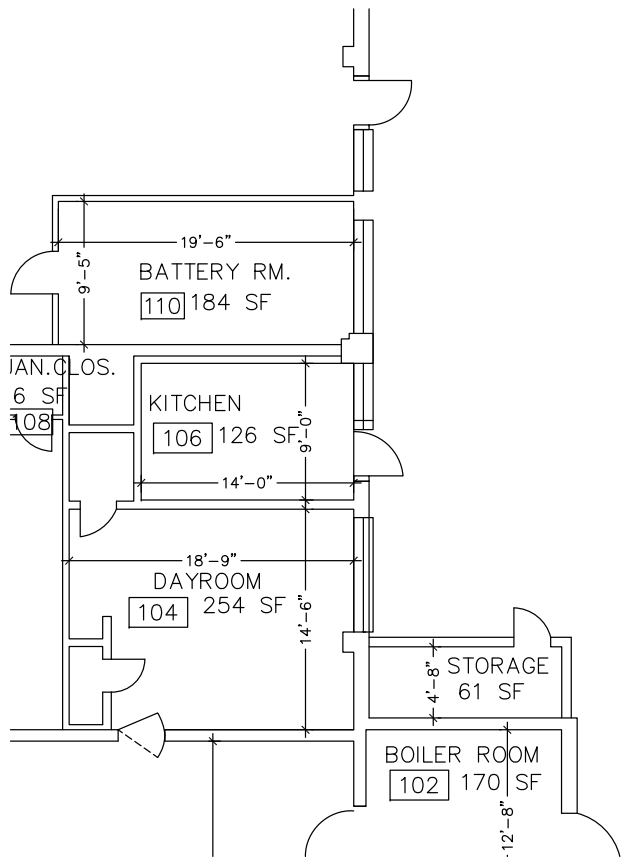
Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN PLAN B



FIRST FLOOR PLAN PLAN C
SCALE = 1/8" = 1'



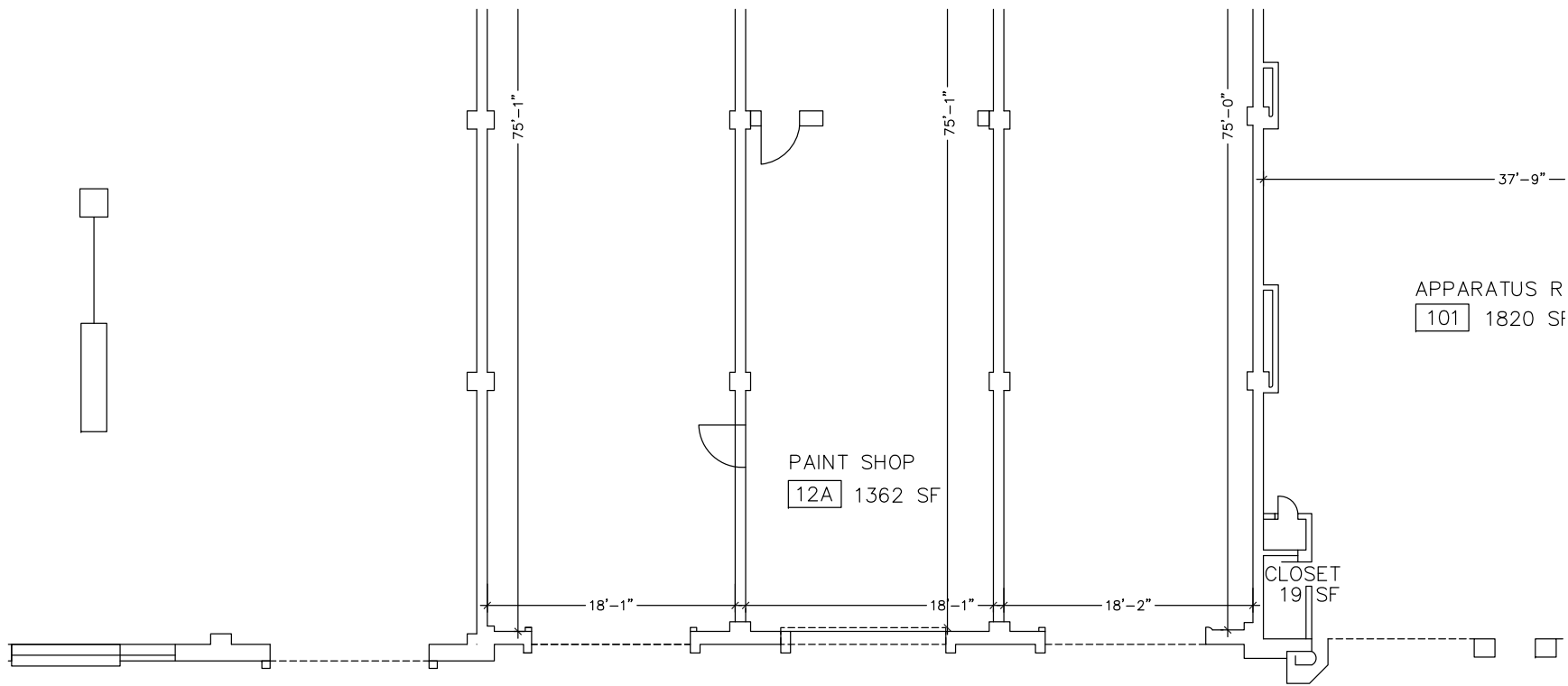
Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	1
Sheet Title:	CO-1
Description:	FIRST FLOOR PLAN PLAN C



FIRST FLOOR PLAN PLAN D
 SCALE = 1/8" = 1'



Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
1	
Sheet Title:	
CO-1	
Description:	
FIRST FLOOR PLAN PLAN D	



HALF STREET S.W.

FIRST FLOOR PLAN PLAN E
 SCALE = 1/8" = 1'

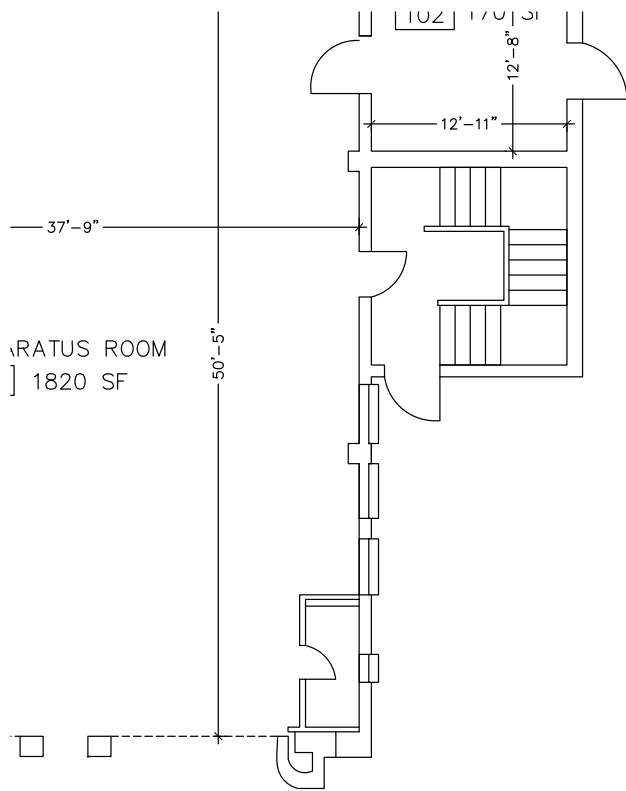


APPARATUS R
 101 1820 SF

PAINT SHOP
 12A 1362 SF

CLOSET
 19 SF

Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	1
Sheet Title:	CO-1
Description:	
FIRST FLOOR PLAN PLAN E	

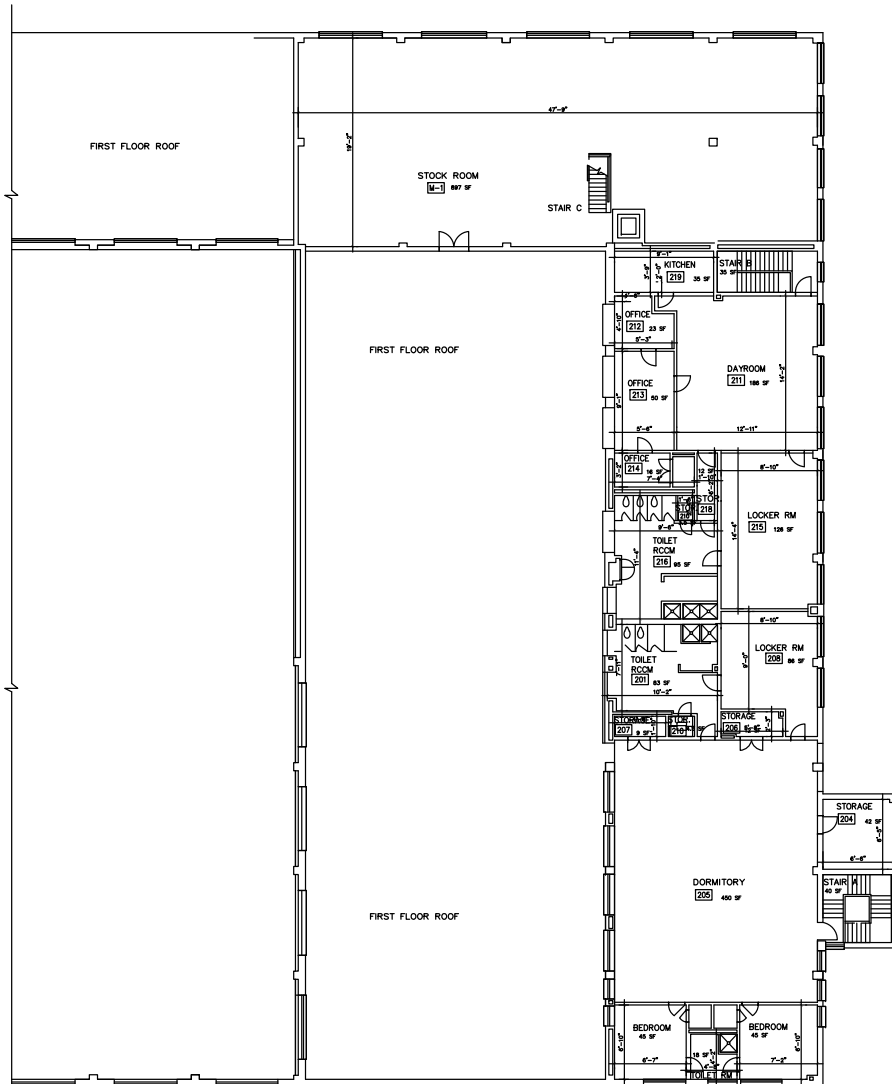


GROSS FLOOR AREA = 43710 SF
 NET RENTABLE AREA = 42697 SF

FIRST FLOOR PLAN PLAN F
 SCALE = 1/8" = 1'




Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
1	
Sheet Title:	
CO-1	
Description:	
FIRST FLOOR PLAN PLAN F	

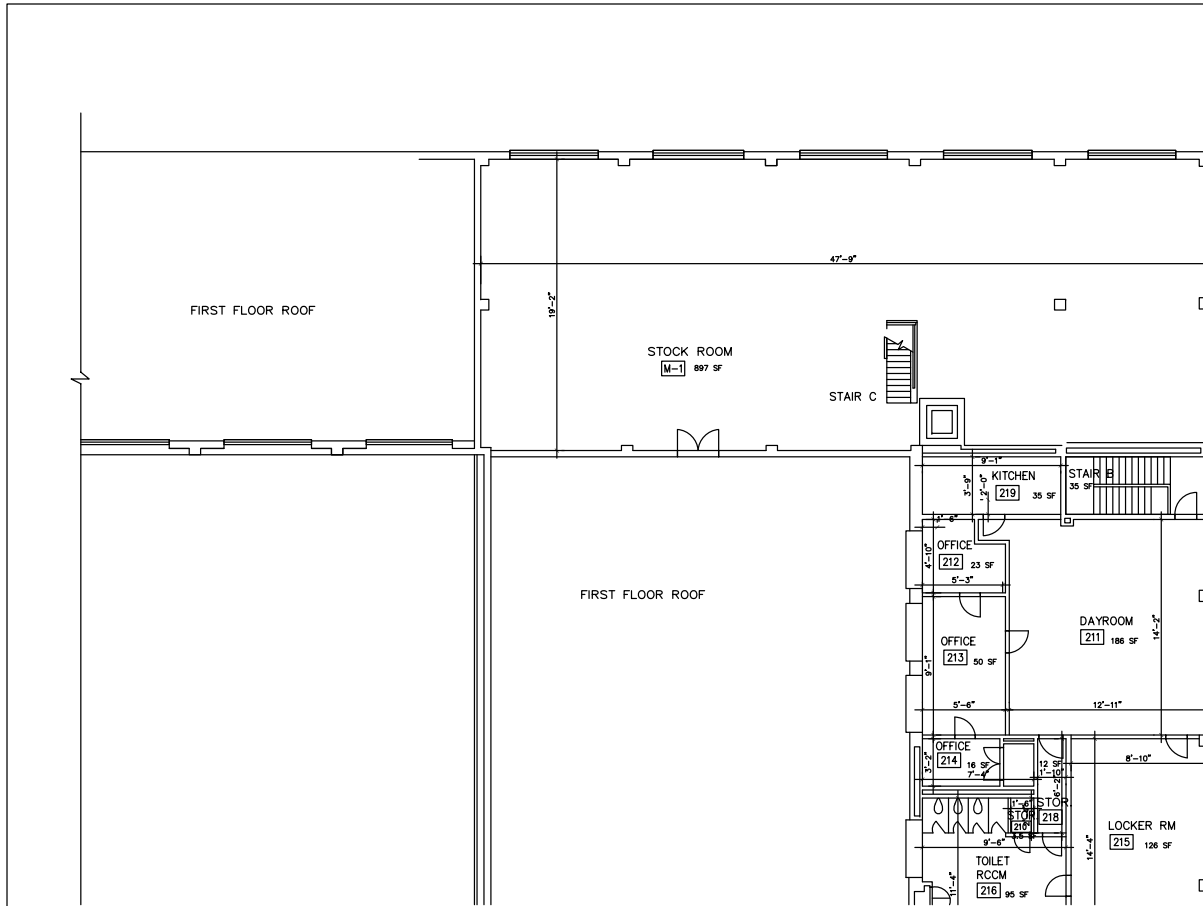


GROSS FLOOR AREA = 7327 SF
 NET RENTABLE AREA = 4607 SF

SECOND FLOOR PLAN
 SCALE = 3/32" = 1'



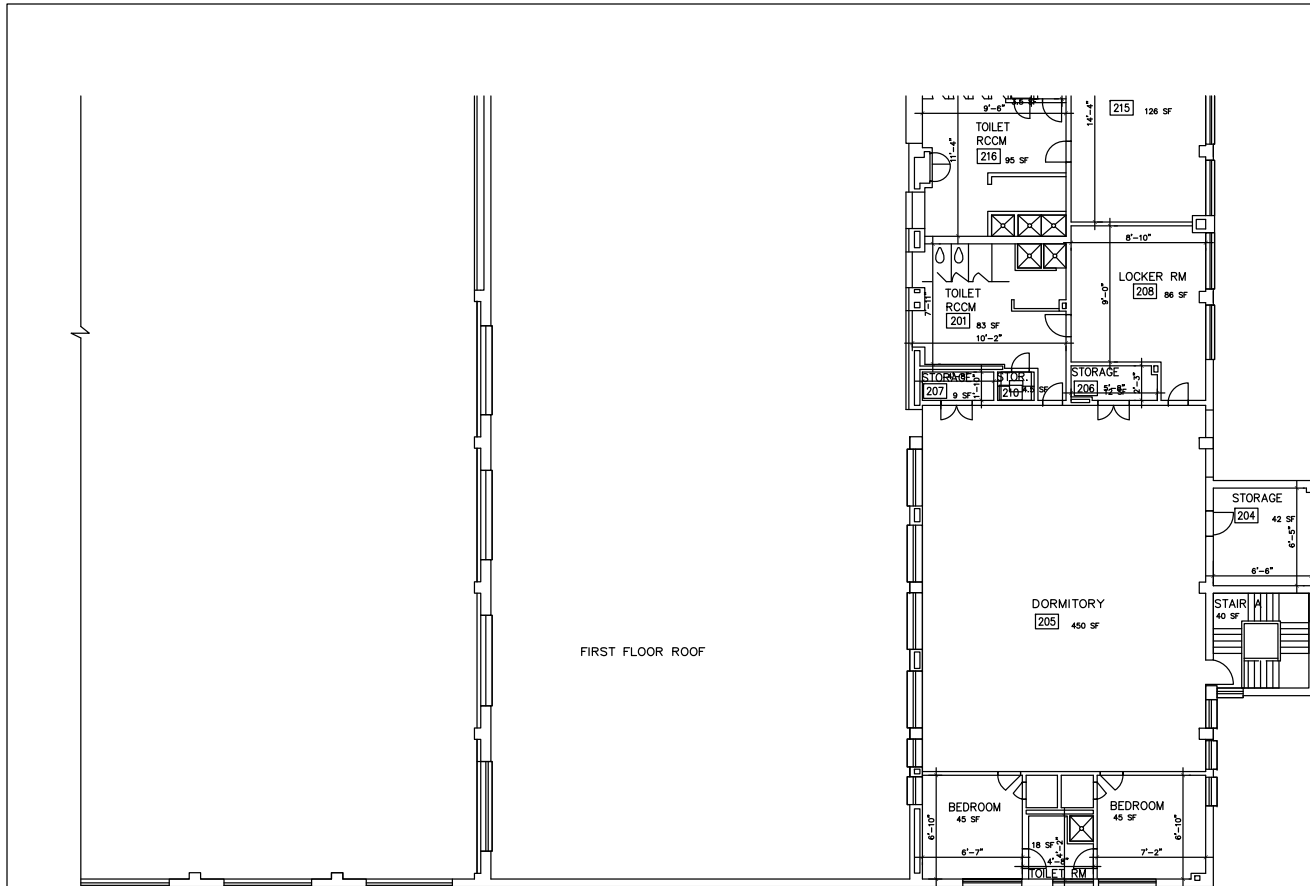
	
Project:	
ENGINE COMPANY #7 AND REPAIR SHOP	
Sheet No.:	
2	
Sheet Title:	
CO-2	
Description:	
SECOND FLOOR PLAN	



SECOND FLOOR PLAN A
SCALE = 1/8" = 1'



Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	2
Sheet Title:	CO-2
Description:	SECOND FLOOR PLAN A



GROSS FLOOR AREA = 7327 SF
 NET RENTABLE AREA = 4607 SF

FIRST FLOOR ROOF

SECOND FLOOR PLAN B
 SCALE = 1/8" = 1'



Project:	ENGINE COMPANY #7 AND REPAIR SHOP
Sheet No.:	21
Sheet Title:	CO-2
Description:	SECOND FLOOR PLAN B



Protective & Marine Coatings

RESUFLOTM 3746 HIGH PERFORMANCE EPOXY

PART A	GP3746	SERIES WITH ANTIMICROBIAL AGENT HARDENER FAST CURE HARDENER
PART A	GP8746	
PART B	GP3746B01	
PART B	GP3746B02	

Revised: January 6, 2022

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUFLO 3746 High Performance Epoxy is a two-component, recoatable epoxy and binder resin. It may be used directly over primed substrates, or as a gloss seal coat over decorative slurry and mortar systems. Resuflo 3746 is extremely hard wearing, chemical, impact and abrasion resistant.

ADVANTAGES

- Impact and abrasion resistant
- Durable, easy to clean
- Chemical resistant
- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities, categories: D2 (confirm acceptance of specific part numbers/ rexes with your Sherwin-Williams representative)
- Available with an antimicrobial agent (GP8746 series)
- Tint bases can be tinted using Maxitoner @ 50% tint strength - see Tinting section on next page for details

TYPICAL USES

RESUFLO 3746 High Performance Epoxy should be used in areas where maintenance of a high performance, aesthetically appealing and chemical resistant epoxy system is required. Resuflo 3746 is suited for use in clean rooms, laboratories, workshops, and light assembly areas.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F (10°C). Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact your Sherwin-Williams representative).
- Maximum dry surface temperature not to exceed 160°F (71°C)
- Strictly adhere to published coverage rates
- Apply clear at only 10-15 mils (250-375 microns) maximum per coat

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Clear, Standard Colors Wide range of colors possible Tintable: W01 (white tint base) and T04 (ultra deep tint base) See page 2 for additional tint details.
Volume Solids:	99%, mixed
Weight Solids:	99%, mixed
Mix Ratio:	2:1
VOC (EPA Method 24):	<100 g/L; 0.83 lbs/gal, mixed

PRODUCT CHARACTERISTICS (CONT'D)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	10.0 (250)	30.0 (750)
~Coverage sq ft/gal (m²/L):	53 (1.3)	159 (3.9)

Drying Schedule @ 10.0 mils (250 microns) wet:

	@ 55°F (13°C)	@ 72°F(22°C)	@ 95°F(35°C)
Standard Hardener:			
	50% RH		
To touch:	16-24 hours	6-12 hours	4-8 hours
To recoat:			
minimum	24 hours	8 hours	6 hours
maximum	48 hours	24 hours	24 hours
Foot traffic:	48 hours	24 hours	18 hours
Heavy traffic:	96 hours	72 hours	60 hours
Full cure:	7 days	7 days	7 days

Fast Cure Hardener:

To touch:	3-4 hours
To recoat:	
minimum	6
maximum	12
Foot traffic:	10-12 hours
Heavy traffic:	24 hours
Full cure:	7 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life (Standard) gallon mass	60 minutes	40 minutes	20 minutes
Pot Life (Fast Cure) gallon mass	25 minutes		

Shelf Life:	Part A: 18 months, unopened
	Part B (Standard): 12 months, unopened
	Part B (Fast Cure): 12 months, unopened
	Store indoors at 40°F (4.5°C) to 100°F (38°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles	76 mg loss
Adhesion	ACI 503R	300 psi, concrete failure
Flammability		Self-extinguishing over concrete
Flexural Strength	ASTM D 790	~12,400 psi
Hardness, Shore D	ASTM D 2240	77
Impact Resistance	MIL-D-3134J	Direct: 160 in-lb Reverse: 20 in-lb
*Surface Burning	ASTME84/ NFPA 255	Flame Spread Index 20; Smoke Development Index 90
Tensile Strength	ASTM D 638	3527.4 psi

*Resuflo Aqua 3477 at 1.5 mils (40 microns) DFT topcoated with Resuflo 3746 at 17.5 mils (438 microns) DFT



Protective & Marine Coatings

RESUFLOR™ 3746 HIGH PERFORMANCE EPOXY

PART A	GP3746	SERIES WITH ANTIMICROBIAL AGENT
PART A	GP8746	
PART B	GP3746B01	HARDENER FAST CURE HARDENER
PART B	GP3746B02	

Revised: January 6, 2022

PRODUCT INFORMATION

STORAGE / APPLICATION

MATERIAL DELIVERY AND STORAGE:

Store materials in accordance instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. 18 months shelf life is expected for products stored between 40°F (4.5°C) - 100°F (38°C).

APPLICATION INSTRUCTIONS:

1. Premix GP3746 (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts GP3746 (resin) to 1 part GP3746B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply GP3746 using a squeegee or trowel and back roll with a 3/8" nap roller at a spread rate of 50-160 square feet per gallon (1.3-4.0 meters squared per liter) to yield 10-30 mils (250-750 microns) WFT making sure of uniform coverage. Take care not to puddle materials and insure even coverage.
4. Allow to cure 24 hours minimum before opening to traffic and 72 hours before water exposure.

Note: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure a minimum of 3 days prior to exposure to water or other chemicals for best performance.

TINTING

Tint bases can be tinted using Maxitones @ 50% tint strength. No more than 6 oz. of Maxitoner colorant for the Ultra Deep Base (T04) and no more than 2 oz. of Maxitoner colorant for the White Base (W01).

Ensure that the colorant is thoroughly incorporated prior to use.

Do not tint package colors.

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact your Sherwin-Williams representative.

CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

DISCLAIMER

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WARRANTY

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Protective & Marine Coatings

RESUPRIME™ 3579 STANDARD EPOXY PRIMER / BINDER

PART A
PART B

GP3579
GP3579B01

SERIES
HARDENER

Revised: December 17, 2021

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUPRIME 3579 is a high solids, clear or pigmented epoxy primer and binder resin. It is available in clear, red, white and gray, has good blush resistance, and is low in viscosity to promote penetration of the concrete substrate and excellent wetting of mortar aggregate.

ADVANTAGES

- Good blush resistance at room temperature
- Low modulus of elasticity, stress relieving
- Acceptable for use in USDA inspected facilities

TYPICAL USES

RESUPRIME 3579 is an epoxy primer for coatings, slurries, mortar overlays, and patches. It can be also used as a binder resin. For slurries, mortar and patching systems. Suitable for use in the Mining & Minerals industry.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier
- Surface must be clean and dry
- Cool damp conditions may cause surface blushing
- Substrate must be structurally sound and free of bond inhibiting contaminants
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F (10°C). Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact your Sherwin-Williams representative.
- When required, adequate ventilation shall be provided and proper clothing and respirators worn
- **Strictly adhere to published coverage rates**

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Color:	Clear, Red, Gray, White
Mix Ratio:	2:1
Volume Solids:	96% ± 2%, mixed
Weight Solids:	96% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed: 0.41 lbs/gal
Viscosity, mixed:	2,100 cps

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	6 (150)	30 (750)
~Coverage sq ft/gal (m²/L):	varies according to usage	

Drying Schedule @ 6 mils (150 microns) wet:

	@ 73°F (23°C)
To touch:	6-8 hours
To recoat:	10-20 hours
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>	
Pot Life:	gallon mass 25-30 minutess @ 73°F (23°C)

Shelf Life: Part A: 36 months, unopened
Part B: 36 months, unopened
Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >230°F (>110°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ACI 503R	300 psi concrete failure
Compressive Strength	ASTM D 695	9,000 psi
Flammability		Self-extinguishing over concrete
Flexural Strength	ASTM D 790	6,000 psi
Hardness, Shore D	ASTM D 2240	75/65
Tensile Strength	ASTM D 638	3,000 psi



Protective & Marine Coatings

RESUPRIME™ 3579 STANDARD EPOXY PRIMER / BINDER

PART A
PART B

GP3579
GP3579B01

SERIES
HARDENER

Revised: December 17, 2021

PRODUCT INFORMATION

APPLICATION

APPLICATION INSTRUCTIONS:

1. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow the mix ratio.

2. Resuprime 3579 may be applied via spray, roller or brush. Apply evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Resuprime 3579 application varies upon usage.

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After the surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush must be completely removed prior to recoating using warm detergent water or through solvent wipe.

Epoxy materials will appear to be cured and dry to touch prior to full chemical cross linking. Allow epoxy to cure for 2-3 days prior to exposure to water or other chemicals for best performance.

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Weight:	9.4 ± 0.2 lb/gal; 1.13 Kg/L mixed, may vary by color

TINTING

Do not tint.

CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

DISCLAIMER

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WARRANTY

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Protective & Marine Coatings

RESUTILE™ 4638 HS POLYURETHANE FLOOR ENAMEL

PART A	GP4638A01	CLEAR
PART A	GP4638W01	WHITE TINT BASE
PART A	GP4638T04	ULTRADEEP TINT BASE
PART B	GP4638B01	STANDARD HARDENER

Revised: March 24, 2022

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUTILE 4638 HS Polyurethane Enamel is a tough, high-gloss, durable finish used as a stand-alone coating system or an optional topcoat over other Sherwin-Williams high-build flooring systems. Resutile 4638 is formulated to meet the tight VOC restrictions imposed by many states. It resists UV degradation, certain aggressive chemicals and possesses superior gloss retention.

ADVANTAGES

- Outstanding resistance to a wide range of chemical, weather and mechanical conditions
- Excellent wear
- High gloss retention
- UV (Ultraviolet) light stable
- Abrasion and impact resistant
- Suitable for use in USDA inspected facilities
- Auto service centers, airport hangars
- Skydrol resistant

TYPICAL USES

RESUTILE 4638 HS Polyurethane Enamel is designed as a finish coat on flooring systems used in warehouses, commercial facilities, aircraft hangars, automobile dealerships and pharmaceutical facilities.

LIMITATIONS

- Urethanes are sensitive to environmental conditions
- Slab on grade requires vapor/moisture barrier
- Substrate must be structurally sound and free of bond inhibiting contaminants
- During installation and initial cure cycle, substrate and ambient air temperature must be at a minimum of 60°F (16°C) and 90°F (32°C) maximum. Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact your Sherwin-Williams representative).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn
- Do not premix Part B hardener
- Humidity must not exceed 80%
- Do not install in open areas during rain
- **Strictly adhere to published coverage rates**
- **This coating though resistant, is not a guarantee against tire staining. Vehicular tires from cars and trucks to tractors and boat trailers are varied and have the potential to leave a stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.**

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Color:	Clear and a wide range of custom colors Tintable: GP4638W01 (white tint base) and GP4638T04 (ultradeep tint base) ONLY See page 2 for additional tint details.
Mix Ratio:	2:1
Volume Solids:	71% ± 2%, mixed
Weight Solids:	90% ± 2%, mixed
VOC (EPA Method 24):	<250 g/L; 2.1 lb/gal, mixed
Viscosity, mixed:	1,500 cps

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	3 (75)	4.5 (112)
~Coverage sq ft/gal (m²/L):	355 (9.0)	533 (13.5)

Drying Schedule @ 4 mils (100 microns) wet:

	@ 73°F (23°C)	
To touch:	2 hours	
To recoat:	6-24 hours	
Light foot traffic:	12 hours	
Heavy traffic:	72 hours	
Full Cure:	7 days	

*If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.*

Pot Life:	gallon mass	4 hours	@ 73°F (23°C)
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Shelf Life:	Part A: 36 months, unopened Part B: 24 months, unopened Store indoors at 50°F (10°C) to 90°F (32°C)
Flash Point:	102°F (39°C), ASTM D 93, mixed
Reducer*:	VOC Restricted Areas (<250 g/L): Reduction not recommended
Clean Up:	Reducer R6K30 or R7K225

*Other areas (<340 g/L): Reducer R6K30 or R7K225 up to 5% by volume. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles	63 mg loss
Adhesion	ACI503R	350 psi concrete failure
Coefficient of Friction	ASTM F 1679	0.5 min dry 0.6 dry with Shark Grip Additive
Flammability		Self-extinguishing over concrete
Gloss @ 73°F/23°C, 50%RH	60° Gloss Meter	85 millage units
Impact Resistance	ASTM D2794	Direct inch-pound greater than 100, passes Reverse, inch-pound greater than 100, passes
Pencil Hardness	ASTM D 3363	2H
Resistance to Elevated Temperature	MIL-D-3134J	No slip or flow at required temperature of 158°F (70°C)

continued on back



Protective & Marine Coatings

RESUTILE™ 4638 HS POLYURETHANE FLOOR ENAMEL

PART A	GP4638A01	CLEAR
PART A	GP4638W01	WHITE TINT BASE
PART A	GP4638T04	ULTRADEEP TINT BASE
PART B	GP4638B01	STANDARD HARDENER

Revised: March 24, 2022

PRODUCT INFORMATION

APPLICATION

APPLICATION INSTRUCTIONS:

Recommended Primers (for concrete):
Resuprime 3504 and Resuprime 3579

Recommended Primers (for tile):
Resuprime 5531 with Resuprime 3504

1. Premix 4638A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts 4638A (resin) to 1 part 4638B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. Apply 4638 using a 1/4" nap roller at a spread rate of 355-533 square feet per gallon, evenly, with no puddles making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.**

4. Allow to cure 12 hours minimum before opening to light foot traffic.

Reduction:
VOC Restricted Areas (<250 g/L): Reduction not recommended

Other areas (<340 g/L): Reducer R6K30 or R7K225 up to 5% by volume. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Excessive reduction of material can affect film build, appearance and possibly cause color float.

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) containers 5 gallons (18.9L) containers
Weight:	10.0 ± 0.2 lb/gal; 1.20 Kg/L mixed, may vary by color

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact your Sherwin-Williams representative.

TINTING

Tint Part A with Maxitoner Colorant at 100% tint strength (white tint base and ultradeep tint base only). Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

CLEANUP

Clean spills and spatters immediately with Reducer R6K30 or R7K225. Clean tools immediately after use with Reducer R6K30 or R7K225. Follow manufacturer's safety recommendations when using any solvent.

SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

For all guidelines on concrete surface preparation, please reach out to your high performance flooring tech service rep or sales representative. Refer to Form G-1.

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