Galveston Railroad Museum Jordan Cartwright Eagle Scout Project Work Plan

Weekend #1 (Saturday) (June 22, 2013) (3 adults, 1 Scout)

Hours: 8 hours x 4 people = 32 hours

Roof Repairs

- o Adults will use wire brush to scrape any rust off of roof
- o Adults sand cupola
- o Adults wipe off any loose material

Power washing caboose

- o Buy gas for power washer if gas powered
- Seal windows with tape
- o Put tarps inside caboose to catch water
- o Hook up hose to the faucet
- o Plug in extension cord for power washer (if electric)
- o Power wash around wheels and underneath caboose
- o Power wash each end of caboose
- o Get ladder or scaffolding and power wash top of caboose
- o Power wash front of caboose
- Power wash back of caboose
- o Power wash each side of the caboose

Roof Repairs

- o Let dry
- o Adults clean cupola with solvent, then paint with primer (~ 105 sq ft)
- o Adults coat roof with OSPHO ~ 300 square feet

Weekend #2 (Saturday) (June 29, 2013) (2 adults, 2 Scouts)

Hours: 6 hours x 10 people = 60 hours

• Preparing right side of caboose (upper half) (adults)

- o Put up scaffolding and start at the top of the caboose
- o Prepare top left side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare top middle side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- Prepare top right side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer

• Preparing interior of caboose (Scouts)

- o Scouts remove debris from inside caboose
- o Scouts sand any rusted areas on the inside of the caboose
- o Scouts sand floor on inside of caboose
- o Scouts sweep out inside of caboose

Weekend #3 (Friday, Saturday) (July 5-6, 2013) (4 adults, 6 Scouts each day) Hours: 6 hours x 10 people = 60 hours

• Preparing right side of caboose (lower half) (adults)

- o Move scaffolding to the other side of the caboose
- o Prepare lower left side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare lower middle side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- Prepare lower right side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer

Preparing interior of caboose (Scouts)

- o Open doors and put a fan inside the caboose to ventilate
- o Scouts clean interior of caboose with solvent
- o Scouts paint interior of caboose with gray paint
- o Scouts leave floor unpainted until the end of the project

Weekend #4 (Saturday) (July 13, 2013) (4 adults, 6 Scouts) Hours: 6 hours x 10 people = 60 hours

Preparing left side of caboose (upper half) (adults)

- o Put up scaffolding and start at the top of the caboose
- o Prepare top left side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare top middle side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare top right side of the caboose (~ 10' x 5') area
 - Sand this section, wipe it clean with solvent and apply paint primer

• Preparing back end exterior of caboose (Scouts)

- o Scouts use hand sanders to sand whole rear of caboose
- o Adults might have to sand high areas
- o Scouts use solvent to clean rear area of caboose
- o Scouts paint rear area of caboose with primer

Weekend #5 (Saturday) (July 20, 2013) (4 adults, 6 Scouts)

Hours: 6 hours x 10 people = 60 hours

• Preparing left side of caboose (lower half) (adults)

- o Move scaffolding to the other side of the caboose
- o Prepare lower left side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare lower middle side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer
- o Prepare lower right side of the caboose (~ 10' x 4') area
 - Sand this section, wipe it clean with solvent and apply paint primer

• Preparing front end exterior of caboose (Scouts)

- o Scouts use hand sanders to sand whole front of caboose
- Adults might have to sand high areas
- o Scouts use solvent to clean front area of caboose
- o Scouts paint front area of caboose with primer

Weekend #6 (Saturday) (July 27, 2013) (4 adults, 8 Scouts)

Hours: 8 hours x 12 people = 96 hours

• Painting the caboose with the first coat of paint

- o Adults will paint the high areas of the caboose using rollers and brushes
- o Scouts will paint the low areas using rollers and brushes

Weekend #7 (Saturday) (August 3, 2013) (4 adults, 8 Scouts)

Hours: 8 hours x 12 people = 96 hours

• Painting the caboose with the second coat of paint

- o Adults will paint the high areas of the caboose using rollers and brushes
- o Scouts will paint the low areas using rollers and brushes
- o Scouts will clean and paint the floor in the inside of the caboose

Weekend #8 (Saturday) (August 10, 2013) (3 adults, 2 Scouts)

Hours: 6 hours x 5 people = 30 hours

• Painting the caboose with the yellow paint stripe and putting on the Santa Fe decals

- o Adults will use painter's tape to line up the area for the yellow stripe painting
- o Scouts will paint the stripe using rollers and brushes
- o Replace the plexiglass in the windows and clean and paint the window frames
- o The Railroad Museum will supply the Santa Fe caboose decals and everyone will help put them on.
- Celebrate the finished caboose.

Total number of volunteers estimated = 73(some volunteers could come back more than once) Total number of hours = 494

Galveston Railroad Museum Jordan Cartwright Eagle Scout Project Materials List

Caboose exterior surface area sq $ft = \sim 1330 \text{ sq } ft$

- Caboose exterior sides = ~ 30 ' x 9' = 270 sq ft x 2 sides = 540 sq ft
- Caboose ends = $\sim 10' \times 9' = 90 \text{ sq ft } \times 2 \text{ sides} = 180 \text{ sq ft}$
- Caboose roof = $\sim 10' \times 30' = 300 \text{ sq ft}$
- Caboose cupola area sq ft = ~ 105 sq ft

Caboose interior surface area sq $ft = \sim 1050$ sq ft

Materials

Paint primer (Rustoleum oil based "Rusty Metal" Primer)

- 1 gal primer covers 300 sq ft (1 coat)
- 1330/300 = 4.43 or 5
- 2 coats = 10 gallons primer
- 10 gallons primer x \$30 = \$300

Red Caboose Paint (Rustoleum oil based rust preventing paint)

- 1 gal paint covers 300 sq ft (1 coat)
- 1330/300 = 4.43 or 5
- 2 coats = 10 gallons paint
- 10 gallons paint x \$30 = \$300

Other Paint

- 1 gallon Santa Fe yellow stripe paint x \$30 = \$30 (Rustoleum oil based rust preventing paint)
- 1 gallon white hand rail paint x \$30 = \$30 (Rustoleum oil based rust preventing paint)
- Interior gray oil based paint (Rustoleum oil based rust preventing paint)
 - $\sim 1050 \text{ sq ft } (1 \text{ coat}) / 300 = 3.48 \text{ gallons} = 4 \text{ gallons } x \$30 = \$120$

Other Materials

- OSPHO roof coat material for ~ 300 sq ft; 1 gallon x \$40 = \$40
- Varsol, Rustoleum Rust Stripper or Kleen Strip cleaning solvent; 32 oz = \$7 x 4 = \$28
- Plexiglass replacement windows; 72" x 36" polycarbonate sheets x 4 = \$100 x 4 = \$400.

Supplies

- Paint roller replacements: package of $6 = \$11 \times 2 = \22
- Painter's tape: 2 rolls x \$10 = \$20
- Tarps: 4 (borrowed)
- Garbage bags
 - \circ 1 box x \$14 = \$14
- Rags: 1 Bag of 60 terry cloth rags x \$20= \$20
- Gasoline: 10 gallons x \$3.50 = \$35.00
- Windex: 2 bottles x \$3 = \$6.00

- Sand paper
 - o 5 packs of 50 Diablo 5" sanding discs (80 grit) = $$20 \times 5 = 100
 - o 10 packs of 5 sheets sanding block sand paper = $\$3.50 \times 10 = \35

Tools

- Power sanders
 - o 2 sanders: borrowed
- Power washers
 - o 1 power washer: borrowed
 - o Water hose (300 feet) (RR Museum)
- Hand sand blocks
 - \circ 4 sand blocks \$8 = \$32
- Wire brush with long handle for roof repair = \$7 + \$5 = \$12
- Eye protection
 - o 4 pairs of goggles for power sanders (Troop 123)
 - o 8 pairs of eye protection glasses (Troop 123)
- Dust masks
 - o 1 pack of $20 \times 20 = 20$
- Gloves
 - o Disposable plastic gloves for solvent cleaning, painting
 - 2 boxes of 50 disposable vinyl gloves = \$5 x 2 = \$10
 - o Work gloves borrowed
- Ladders or scaffolding
 - o borrowed
 - 2 ladders (adults) borrowed
 - 1 portable scaffold (RR Museum)
- Generator: (RR Museum)
 - o Paint brush rollers (4) Borrowed
- Paint brushes
 - o 10 brushes
 - 5 packs of $2 \times \$7.50 = \37.50
- Buckets Borrowed

Other

- Tent canopy for shade: borrowed
 - o Can you hang a tarp off the caboose for shade?
- Ice Chests for drinks: borrowed
- Table for set up: borrowed
- Chairs for resting: borrowed
- Fan for breeze?: Borrowed
- Food for lunches, snacks
- Drinks: water and Gatorade