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INTRODUCTION

WELCOME! This is DramaShare's DramaTech Technical Manual, 2.0. We really never intended to try and make a newer version, but the requests were too many to be ignored. I still wish I could say that all the answers to all your problems are here, but they probably aren't. The manual starts off with a new section on designing sets. It's main goal is to get you to start thinking and visualizing in a new way. The section on lighting and the section on microphones have been expanded somewhat, as has the section on set building. There is more on how to use lighting and how it affects what's onstage. The sound section has a more detailed discussion of microphone types and how to use them in your drama. We added a section on makeup, because makeup and lighting gordand in hand There is also a section on the basics of costuming. It isn't a how to sew tutorial but it deals more with why costuming is helpful, and tips on designing ideals There is however, a fairly detailed how to tutorial on painting ordboard. The principles carry over to any other substrate, but folks up 't hink about what can be done with cardboard. We added a section on props, and hopefully t can get you started. There is some good information on some Biolical period props in there, so check it out.

Hopefully this expanded manual will serve as a sasic understanding of how to do some things, and a handy reference tool for planning some of your productions. What we wanted to do was to try and out a let of general naterial in one place. You won't have to wade through 300 pages of information for the 10 on what you need and want to know. Again, please understand mat the concept of this manual has always been to understand the basics. As I said, there is a fair amount of detail on some subjects, and on others it will just serve to educate. You can at least understand how a basic sound or lighting system works, and what some of the components are, and what they do. 'There is also a little on designing with lights, and their effect on makeup. Nothing but trial and error and lots of sweat and work and practice will make you good at anything. Throughout there are some references to books by title and author, and hopefully you will invest in one of two of them.

For backdrops and flats, and building set pieces, there is more information and some better illustrations. Materials to use, steps involved, and some hopefully helpful diagrams and illustrations. There is a very brief introduction to scale drawings, perspective, and creating depth and 3-D with paint. At the end of this booklet, is a long list of Terminology. Acting, Stage, Sound, Lighting, and even Script Writing terms are here. Is it conclusive? Not hardly. But there should be enough to keep you from feeling totally ignorant.

We appreciate you, the membership, and will continue to try and serve you better. And as a special bonus, we have added a tutorial on the Armor of God, fully illustrated. You'll find it right after the section on **BUILDING A MODEL**, near the back of the manual. God bless you all.

Thank you. Karl Wagner Toccoa, GA

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PROLOGUE: THE FORGOTTEN RULES OF DESIGN

I wanted to introduce everything with these Forgotten Rules. These rules will apply to set design, costumes, set dressing, props, special effects, and may even carry over to some sound and lighting. Please take these into consideration to try and save yourself some aggravation, money, and maybe even embarrassment. Think them through, or at least have someone involved who is willing to play the "devil's advocate" and speak up about it. It doesn't have to be confrontational (though often it is) but it does need to be a realistic concern

RULE 1: TECHNICAL ASPECTS RARELY "MAKE" THE SHOW

An elaborate set, fantastic costumes, dramatic lighting, or wonderful visual effects, or whatever, very rarely make the show a success. Invest in good writing or well-written dramas. Invest in training and rehearsing with your actors. They make the show. Good actors with good material, led by vise directors are a nearly "can't miss" combination. All the technical as pects can make the show better, but they can never save the show. If you are relying on the technical, then become a theme park.

RULE 2: DO WE NEED IT

This is of utmost importance. When a script is being analyzed for Technical aspects, you have to be able to distinguish between what you need and what you would like. Never, ever, confuse the two. The technical people along with the Director need to make lists and compare, and then decide. Do you need to make elaborate sets for a Gaiden scene, or san a few plants and some lighting be enough? Do you need a complete tiving room with walls and wall coverings, doors, windows, and carpeted floors, or will a couch and a lamp and a few chairs with an area rug do the same thing? Is this a one-time need? Will it be worth the extra expense, and what are the real chances that they will ever be used again?

RULE 3. WHAT WILL IT REALLY COST

Read Luke 14:28-31 "For which of you, intending to build a tower, does not sit down first and count the cost, whether he has *enough* to finish *it...*"

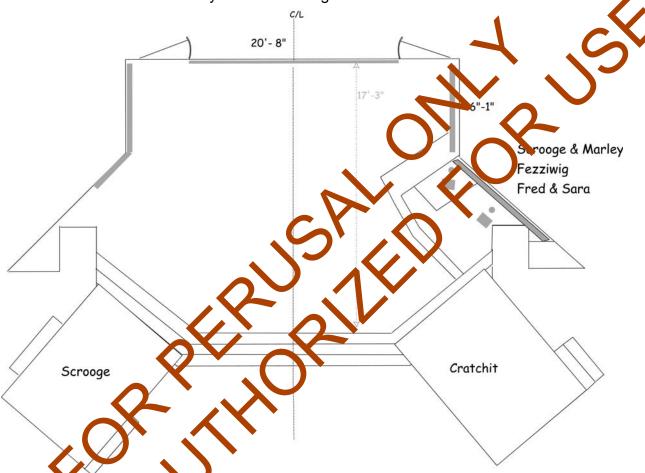
Sit down and figure the cost. Don't guess. Check on the prices of building materials and fasteriers, paint, etc., and calculate how much you will need. In order to do that, you'll have to make drawings and sketches of everything, or else you won't have the foggiest idea. Estimates are okay, but guesses are not. How many costumes will you need? How much fabric? If you rent the costumes what will that cost, as well as costs for shipping? <u>Do not underestimate the costs involved in a million trips to WalMart for the "Oh, I forgots."</u>

budget is such a large issue for something that is often so small. Determine where your money is best spent. Think about everything involved, especially the after keep of the props, set pieces and costumes, and figure that into the cost as well. Will you need to invest money on storage, even temporarily?

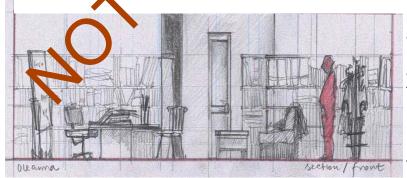
HOW TO START

Having analyzed the set and discussed the feel of the show with the Director, start out with sketches. Make a series of sketches both in plan and in elevation. When those are approved, then create finished drawings, to scale, in plan and elevation (See the chapter on **SCALE DRAWINGS**, in **SECTION 2 BACKDROPS AND SCRIMS**).

Plan means as you're looking down on it from above, you know, like floor plans. Elevation means drawn as if you were looking at it from the front.



(Figure 3) Set floor plan (above) and (below) an elevation from a different show

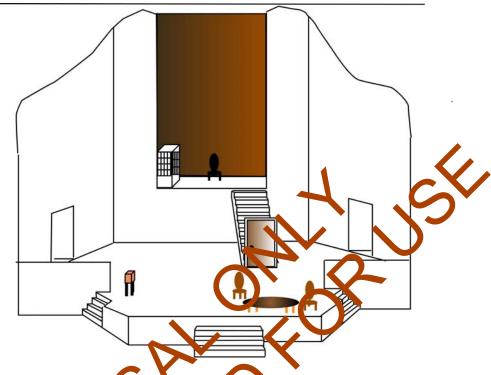


These drawings, will
help everyone involved to
better visualize the whole
set. Scale drawings can
allow you to see if there is
room for people to move
around onstage, and whether
the set allows for the business the Director has in
mind.

However, without doubt the most useful item that a

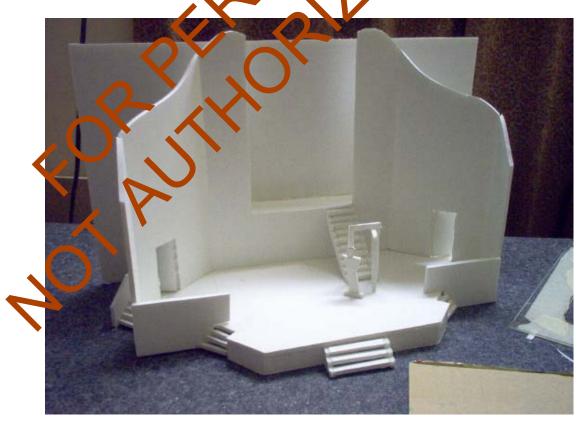
scenic designer can create is a model of the set, to scale. This puts it all into a real perspective, and is nearly indispensable. That way everyone knows what it looks like from any angle. Those who have trouble understanding and visualizing from drawings can see the real deal.

After that, if someone else will execute the design, there are usually painted artist's elevations to help facilitate the final prod-



uct. These are the art to be created, and (Figure 4) Steps to execute; Sketch should be followed as closely as possible. (Loove) Model (below)
Using the sketches and models can make

life very easy.

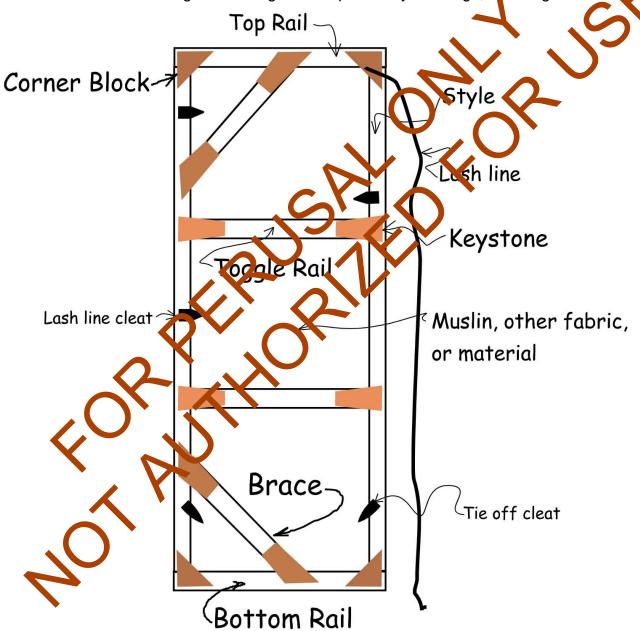


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SECTION 3 THE THEATRICAL FLAT

CONSTRUCTING THEATRICAL FLATS

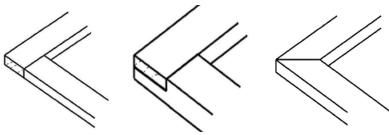
The flat has been a theatrical standby for generations (see **Figure 29**). There are just about as many opinions on how to build them as there are people. We will describe one, and touch on others. The flat is a single section, which may be a wall piece, or a door piece or even a window piece. Construction will be basically the same. Dimensions are inconsequential at this point. A typical flat is 1'-5' or 6' wide, and used to be 12 feet high. The height will depend on your usage, and stage.



(Figure 29) Typical Theatrical Flat

Use 1"x4" lumber, 3/8" plywood, and screws to fasten it. First of all, cut the top and bottom rails to the exact length of the flat's width. The stiles will sit on top of the bottom and under the top. This allows you to slide the flat along the floor without splitting the wood of the stiles. There are many ways to join wood, but the three easiest are butt joints, dado, and mitered joints (see **Figure 30**).

Cut the stiles the height of the flat, minus twice the width of the rails (to compen-



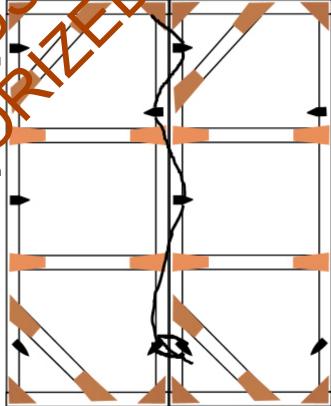
(Figure 30) Butt joint (L) Dado (C) Miter (R)

sate for the top and bottom rails). Use a framing square to keep the flat square, during the construction process. An out of square flat will be a nightmare to use. Cut the Corner Blocks out of the pywood. Make them triangles (so scales-two side - (legs)

equal in length). Their legs will be about 9". Square up the top rail and one stile and then attach the corner block using screws (sized to NOT go through all the pieces of wood, 3/4" screws). Continue on attaching the four corner blocks, squaring it continually as you go. *NOTE: When attaching anything to the back of the flat, keep it 3/4" from the edge, so that when the sections are attached side by side, there will be no possibility of them not being flat togethe

Next attach the Toggle Rails. Cut the toggle rails the width of the lat, minus two times the width of the lander used (to make up for the two sixes). You may have to force the toggle rails in, because the long stiles may be warped or bowed slightly. Square them up, and attach them with the Keystones.

Next attach the corner braces Notice that the byces are only placed on one side (typically the left). If they are on both sides it will make the flat warp. Once this is done, the name needs to be flameprocfed. Che with your local supply house for the proper flameproofing for both wood and for fabric. After this, attach the lash line cleats and the tie off cleats. Attach the lash line after the fatric has been put on. The lash line cleate an placed as they are because most stage hands are right handed, so they can hold the flat with their left hand, reach the lash line and wrap it and then tie it off.



(Figure 31) Typical flat tie off

Next, try to troubleshoot in advance. Every show has one or two props that will present unexpected challenges or that will be difficult to find or buy. For example, how about a two-foot high tomato aspic that has to be dropped on the floor and fall apart every night? Or an office safe that has to be light enough to maneuver quickly on and off stage in a seven-set show? Or a six-foot high martini glass? Or a cigar-store wooden Indian? I have encountered all of these and more, and for each one eventually found a solution or an accommodation.

MAKING YOUR PROPS

"Where do you get props?" is another question I hear all the time. That, and, "Where did you find that?" All too often the answer is, "I made it." Or a found on the street. Someone was throwing it out." In short, props come from wherever and low ever you can get them. If you're *deeply* involved in theater at your church, or school, or community there are some things I already know about you.

- 1. Your living room furniture has appeared onstage more times than you
- 2. You've driven around looking for discarded furniture or boxes to make lets.
- 3. You are a frequent shopper at your local Thrift Store.
- 4. You buy your work clothes at Goodwill so you can afford to buy that new maglite, and a new tool kit.
- 5. Because of you, sales of Duct Tape apatho Glue have skyrocketed.

Okay, back on track. Just as we discussed learning to whink in set design, props is even more of that. You have to learn to train your ning so that you can "see" what you need to have. But before that, you have to study what historically existed. Now, I know that very few of you have temendous about to of time, but there are many

things we can learn. If you're a church, you will more than likely do a Riblical piece. That can mean 1st century Roman, Hebre v,

That can mean 1st century Roman, Hebre v, or other Middle Eastern. (Ephesus, etc...) If it's old testament, then its possibly releo-Hebrew, or Egyptian. Study host types of items, and keep hem in your raind. That way, when you need it you can find it. You have to aways be thinking a head, way beyond right now.

Here's a "for instance." I heard about a woman who wanted to give away some old furniture. Levent, and I saw these two things (**Figure 41**). Now, in my mind, what I



(Figure 41) Victorian couch and an antique piano stool

(**Figure 42)** Roman couch and a folding field stool

saw them become were these two things (**Figure 42**). Was it a perfect match? No, but it was close, and after some doctoring and removing the back of the couch, it was very close.

Is it a talent and a gift? Yes, but 90% of it was learned. I learned it from studying, and making mistakes, and masterpieces, and everything in between. I once made the lath in a set for an antebel-

lum house vertical. Now how in the world would the plaster stick to that? It would slide right off and into a big mess on the floor. What was worse, I lived in an antebellum home that I had replaced plaster in, so I had first hand experience. I don't know what was going on in my mind other than we had 9 more hours to be done, and we were 16 hours away from being finished. Believe it or not, it got on film (and no, I will *not* admit to what film it was). It's okay. The world did not end. I did "work in this town again"... for many, many years. You've just got to try.

RULES ABOUT PROPS

- 1. Safety: Safety is always primary. If you build it, it must be safe. The safety of the cast, crew, and yes, the audience must be primary. If it's a prop that is breakaway, make sure it doesn't break everywhere and scatter to the four winds.
- 2. Recognizable: If it is a hand prop, the actor's use on the make it recognizable. But if the audience has no idea what it is, mentity of no use. This isn't a movie, so you can't have a closeup of the object
- 3. Appropriate: First, it must fit the time period. If it is 1st century, then the choices for writing substrates are papyrus and parchment. The choice for a pen is most likely a reed pen, not a quill. If a quilt would be goose, not ostrich or peacock. Second, it needs to have the look and appearance of real. If it should be wood, it should look like wood, but it doesn have to be wood. The early Star Trek props were salt and pepper shakers that underwent a transformation to look "other worldly." This is where the idea of image over reality comes into play.

THINK ABOUT SHAPE

Look for a picture of what you want, and go nom there. Learn to see the shapes you need. Break kup into those shapes and try to find what will fit in that category. Then beat it to fit and paint it to match. Thean, paint it to look appropriate for the time period. (See **Figure 43**) This is Lumiere from a major production, but now look at **Figure 44.** See the shapes at the end of Lumiere's arms,



(Figure 44) Lumiere from a smaller production.

the ones that make up the canulesticks? What can make those shapes?

How about these items?
Popcorn tubs or plastic pails.
See where I'm going with this?
Learn to see what you need and want. Visualize what it can be, not necessarily what it is.

If you're making a set piece that needs a look similar to stainless steel, you can use luan or ¼ " plywood, and cover it with



(Figure 43 Lumiere from the Broadway production of Beauty and the Beast

See this URL: http://www.technifex.com/pages/products/products_fauxfire.html



(Figure 84) Technifex Fire en ct (steam and lights)

SMOKE (OR FOG)

Well, it used to be that in the US It was fog machines of foggers, and in the UK and most of Europe it was smoke machines. A dictionary would tell us that fog is "...

droplets of water vapor suspended in the air." Smale is, "...cloud of fine particles suspended in a gas." Actually, in the business either term refers to the same thing. A special effect (s) (FX) produced in one of several different ways, but still producing an FX that looks pretty much the same. A cloud and/or haze onstage, whether dense or not. For the sake of ease we will use smoke throughout, even though what we have is a rog... confused yet?

A very important thing to remember is this: Smoke FX take a lot of practice and rehearsal. The person working the FX needs to be incroughly knowledgeable about not only the operation of the machine, but needs to have worked with a enough to know its little quirks, strengths, and weaknesses. Every machine is different and works differently depending on fluid used and time in use, etc.

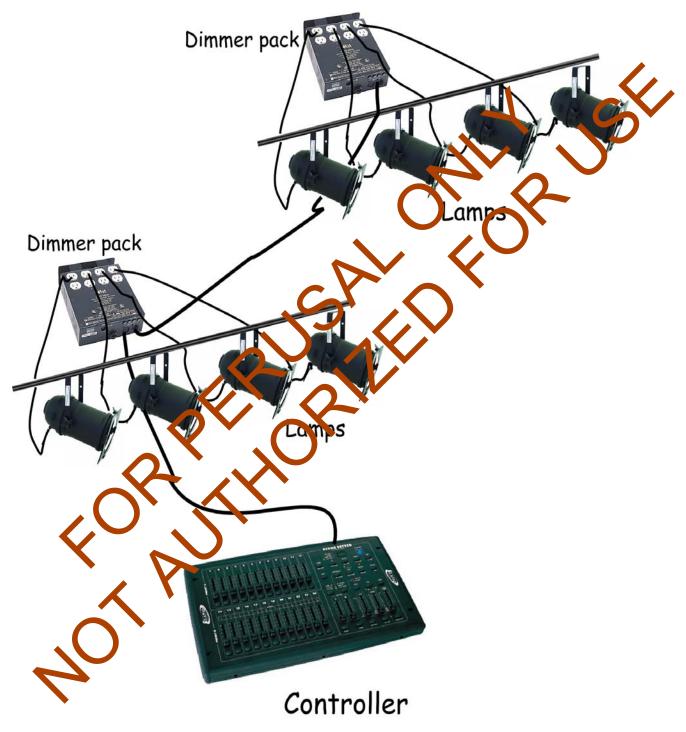
LET'S SART AT THE VERY BEGINNING...

A very good place to start. What exactly is a smoke machine? It's a thingamajig that you plug into the wall and push a button and/or turn on, and white smoke comes out the end. If that isn't technical enough for you, I'm sorry. Whether the device uses dry ice, liquid nitrogen, glycol-



(Figure 85)
Typical smoke machine

*NOTE: The information from the preceding section on lighting was compiled by Steven Haworth, a freelance lighting designer and theatre lighting consultant in the Chicago area, and a founding member of the Vineyard Center for Artists. This information is posted on the Dramashare website as well.



(Figure 96) Basic Lighting System

DramaTech Manual 2.0 Copyright DramaShare 2006 Page 89 can do just about anything with it.

The Makeup Kit

Before we get into some basics of applying, let's try and figure out what we need to have to do the job:

Foundations (the undercoat or primer, so to speak), multiple colors of makeups, contour wheels (four or five accent colors in one container, depending on the skin tone chosen), black pencil, lipcolor, velour powder puff, rouge, latex sponges (for applying makeup), highlight (a light color to highlight bone prominences, etc.), flat brushes #2 & #5, eye shadow many variations), eyebrow pencils (varying colors but lots of them), stipple sponge (for old age effects), dry rouge brush, rose & scall wax, dry rouge, makeup remover (can be special products of cold cream), lip pencils, translucent face powder (to set the makeup, so you'll need a lot), spirit qum or liquid latex (or something similar as a prosthetic adhesive, had color, a color ineers, eyebrow/lash comb, mascara, and anything else you'll find you'll need

I also have in my kit varying colors of **crepe hair** (for fac all hair ctal), baby oil, Q-tips, **prosthetic adhesive remover**, special **stage blood** effects (capsues and mint flavored stage blood for that punched in the mouth look), **bloody scab** (a heavy, waxy, blood looking makeup), **tattoo cover** (a special formulation that is heavier pigmented), scissors, bobby pins, safety pins, a **bruise wheel** (similar to the contour wheel but it's all the colors you need to create bruises, and a ton of makeup sponges.

Okay, we have some knowledge, and some tools let's play



We will start with what is generally called straight makerp. It's not some caricature or say old age. It's pretty much just making you look better under the lights. The dist order of business is to start with a clean face, and if necessary hair pulled up and away from the face. Maybe put back or just the use of a headband. Also, do not put on makeup with your costume on, and wear something like a smock or even just an old t-shirt.



Take an makeup sponge and a foundation that is very close in color to your natural skin tone. Apply it evenly around the entire face, ears, and neck (whatever will be exposed).



(Figure 109) foundation applied

Shadow color

Using a brown (or whatever is applicable to your skin tone) start by putting on the shadow color on the cheeks (below the bone), and along the outside edges of the nose ridge. You'll also need some just above the eye but below the brow bone (just below the eyebrows).



Highlights

Highlights

After the shadows are roughed in, then put in some highlights (nearly white) in under the brow bone, under the eyes, on the cheek bones, along the nose ridge.

Blend

Now using a sponge or a brush, blend the highlights and shadow with a brush to even it out and make it less obvious. Try not to smear the colors and make the highlights (Figure 110) Shadows and muddy looking. This takes a bit of time to even it out and make it all smooth. Try to

get it nice and smooth, but don't end up "erasing" all the shadows and highlights.



puff and appy the powdor to (Figure 111) Blend the shadows and highlights

the makeup and makes it to where it won't run, or rub off oo easily.

Powder

Once you gotten it all blended, sprink e come translet cent face powder on a velour

> the en ire area covered with four ation. The low er sets



Using a powder brush, brush off the excess powder.



Eveliner

(Figure 112) Velour Puff and loo e translucent setting powder

Now take an eyebrow pencil and use it to line the eye. an interesting trick is to make sure that at the outside edges of the corner of the eye, that the upper and lower

lines don't touch each other. They should flare away just a fraction. In hat area add some whitish highlight. It looks a little unusual up close,

but on stage it halps to open up the eye.

Lips

are usually done with a lip pencil or brush (not just lipstick).

Blush

Dry blush is added to the cheekbones with a powder brush. Men use it sparingly.

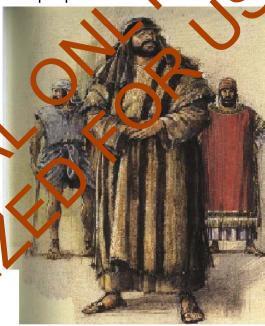
robes were worn in Jesus' time helps us to understand his statement in Matthew 5:40: "If any man will sue thee at the law, and take away thy coat [haluk, tunic], let him have thy cloke [tallit, himation, pallium] also." It was better in Jesus' mind for one to appear immodest than to be a contentious person.

As time progressed, many of the Jewish people found themselves wearing clothing that had no distinctive corners to which they could attach fringes; therefore, the traditional *tallit* gradually came into disuse. Anxious to maintain fulfillment of the commandment, however, the Jews decided to retain the robe, not as a main garment, but as a shawl or surplice worn as a religious garment: the prayer shawl. The pame *tallit* was maintained through the centuries for this liturgical garment.

By wearing this surplice during the day, the Jewish people could continue to wear

the *tzitzit* (fringes), which were essential to the fulfillment of the commandment. Again, as fashion changed and the wearing of a fringed surplice became an incongruity, the Jewish people came to wear the *tallit* only for prayer, in both home and synagogue. Until well after the destruction of the Temple and the Roman occupation, the Jews in Israel continued to wear the *tallit* as a simple outer garment with *tzitziot* attached in the four corners. The transition from *tallit* and *tzitziot* that were worn throughout the day to tallit as a praying shawl was not complete even for Jews in the Diaspora until centuries later. The modern

"prayer shaw" is nuch more ecent, dating only to the time of Medieval Europe.



(Figure 128) Ancient Hebrew clothing

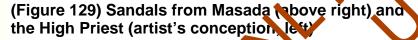
Images from: Gower, Ralph, The New Manners and Customs of Bible Times (Chicago: Moody Press)





Some costuming help comes from the scriptures. The description of the clothing the High Priest must wear is helpful, but even with the description, some of it is simply up to interpretation. There have been period sandals discovered at

both Masada and Qumran in Israel.



MAINTAINING COSTUMES

Costumes require constant maintenance during shows. During the run of a show, the costumes should be hung in a specific location, a coparate one for each character. It is a good idea to have a capply of straight pins and small pieces of brightly cold ted paper, and several ink pens in the dressing rooms for the actors to draw your attention to any mend-

ing or costume needs. You cannot seme noer everything and usually, the one thing you forget is the one that is most important or requires the most from you. Instruct the performers to write the problem on the paper, and then to pin the piece of paper to the damaged or problem area of the costume. Then hang the costume so the paper is sticking out.

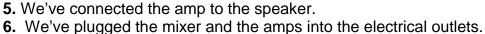
Make the rounds after the performances or rehearsals, and then deal with whatever needs have arisen. Costumes should always be cleaned before being stored. I think it would be wise to create some sort of "cneck-out" form for all costumes and their accessories. If the cost ime is loaned or rented, these can be invaluable.

During performance keep a good supply of safety pins, and a needle and thread handy. You never know when you'll need it. I can remember the costumers at the Met, standing in the wings covered with safety pins, and a pocket full of a small kit with about a dizen threads, needles of various colored threads, just waiting, in case. They also wore headband ights, with red gels. Many productions also keep a hot glue gun handy. Trust ne, you can do wonders with hot glue. Good things to have on hand are an iron, and maybe a small steamer to help get out wrinkles.

It is a good idea to keep an inventory of all the costumes, and especially with the advert of digital cameras, you can more easily keep a photographic inventory as well. Take the pictures and create an electronic inventory complete with all photos, and a written description. That will become invaluable a few years down the road when you're trying to remember what you have and what the colors are, etc.

crophone cord.

- **3.** We've plugged all the snake cables into the mixer, and just to be weird, we started at #4 on the mixer. (It doesn't matter where you start.) So, channel #1 on the snake is controlled by channel #4 on the mixer (you'll see why later). So if the snake cables are plugged into channels #4-11 on the mixer, then the mixer channel #8 controls snake channel #5, and consequently, our microphone.
- 4. We've connect the outputs (sends) of the mixer into the amp.





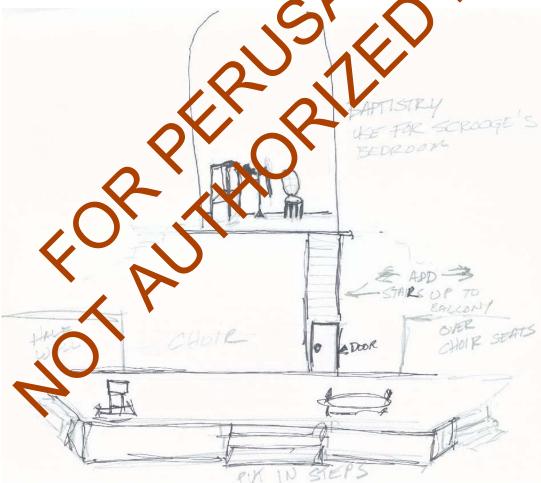
SECTION 13 BUILDING A MODEL OF THE SET

I opted to use a church as the location because many of you may have that as your only option, and the script I am using is <u>A Christian Carol</u>, from DramaShare's

website. For all intents and purposes this is pretty much A Christmas Carol. I used my home church, and this is what it looks like. The pulpit will be removed, and the baptistry will be the location for Scrooge's room.



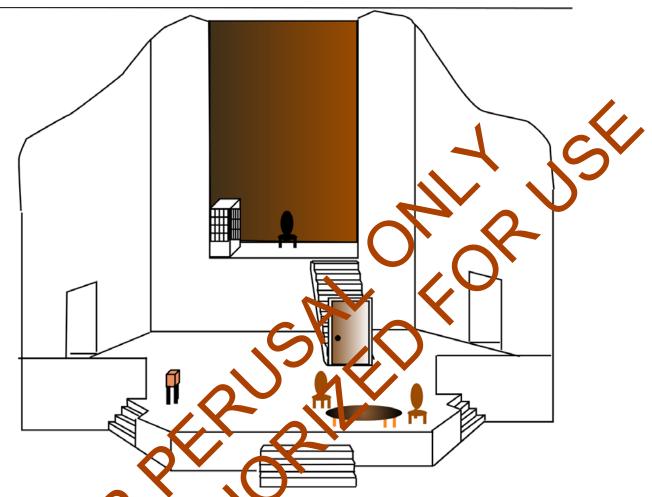
After coming up with an idea I cranked out a pally rough skytch.



getting the quick sketch approved, I went to the computer and drew up a set design sketch that was pretty much to scale. I used a free draw-

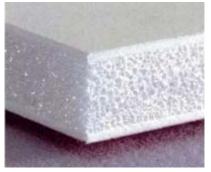
After

ing software I have been working with, and after a little work I came up with the concept drawing for the set.



This is a little clearer, and it makes visualizing easier. However, there is still a lot of work to try and figure out if there's enough room, and what type of blocking will work. So the next step would be to build a model of the set.

I second to build the model and decided to use Foam-core, which is a stift art board that has two sides made of paper over a styrofoam center. The really important fact is to make it to acale. Scales and scale drawing is covered in **SECTION 2.** There are scales available for whatever your unit of measure is (metric, or inches). If your drawing is not made to scale you're just guessing as to whether furniture will fit and people can move around it. If you have a floor plan that is to scale, you could print it out and glue it to the Foamcore (or cardboard, or whatever), and then cut it out. I chose to draw it out.



Choose a scale large enough to make it feasible to put in set pieces, people, etc., at least 1/4" = 1'0". I chose to use 3/8" = 1'0". The tools needed will be the Foam-

First of all, the Roman Legionnaire:

Here we see a fairly typical legionnaire. He is wearing a Gallic type G style helmet, and for his body armor, the Lorica Segmentata. On his feet are the Caligae, or boots. There were many variations on these, but they were not really a sandal.

He is carrying the Scutum, or shield. By his right side is the Gladius, or short sword, and it is held to his waist by the Balteus, or belt, often called a cingulum. The tunic he is wearing is red, although there is much evidence for a white tunic instead. He is also wearing leather trousers. These trousers offered extra comfort and protection, but were not necessarily the norm.

If there are any historical re-enactors out there, you will know that there is just as much likelihood of wearing chain mail (Lorica Hamata). And they may have worn Lorica Squamata, a woven stirt with metal scales attached. The Lorica Segmentata could have been leather as well. Atthough there were many types of chest armor, the least typical is the so-called muscle armor most costumer's sell.

There were many variations on the helms as well, with some being all blass, but the style vas

vely close.
The least likely is a nelm with a

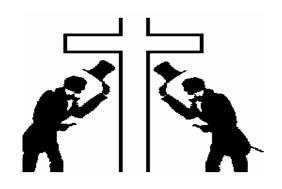
crest. The crests were worn by Centurions, and although many legionnaires' helms may have had the ability to attach a crest, it is generally considered that these would not have been worn in battle by the average legionnaire. One reason could be the need to locate the Centurion, who did wear a crest. Their crest was from side to side, though.



Centurion from

http://www.roman-empire.net/diverse/reenactment.html

So now let's look closer...



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