GENERAL NOTES

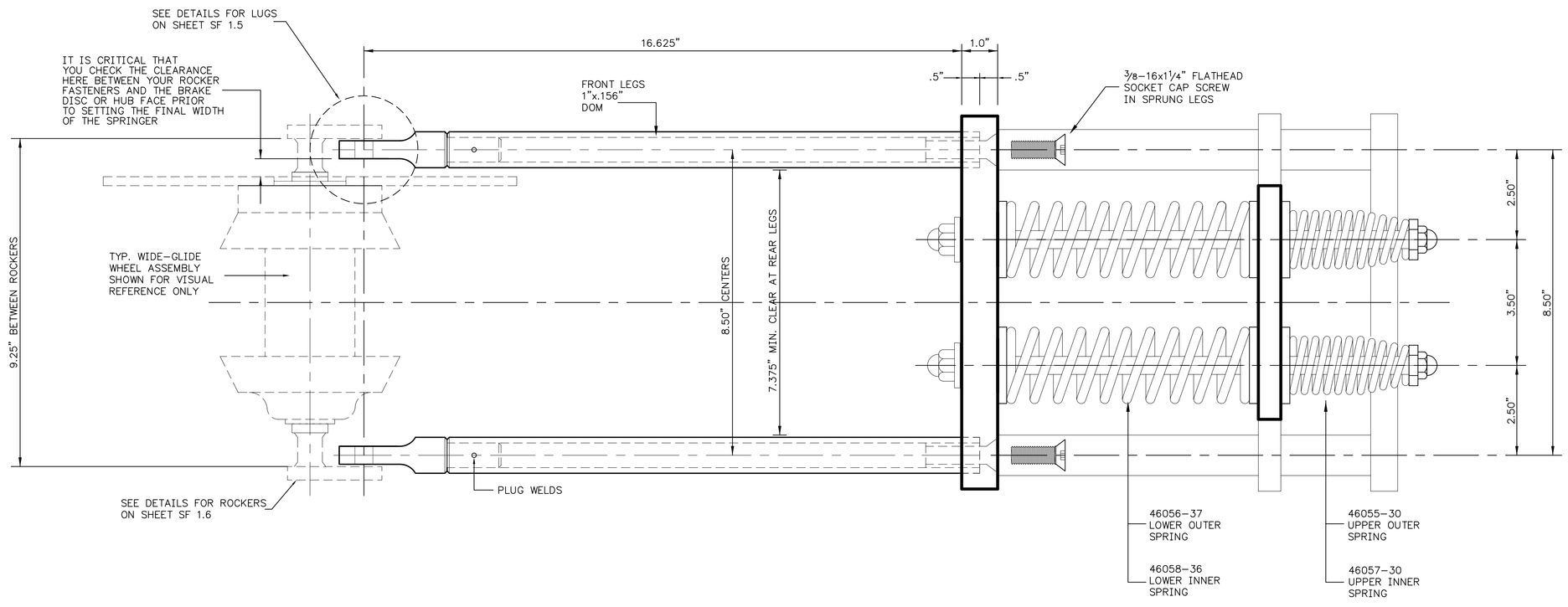
1. VERIFY INSIDE AND OUTSIDE DIAMETERS OF ALL TUBING COMPONENTS PRIOR TO MACHINING.
2. THESE PLANS ARE PROVIDED EXPRESSLY FOR THE USE OF EXPERIENCED MOTORCYCLE FABRICATORS WHO ARE HIGHLY SKILLED IN THEIR CRAFT AND CAN PERFORM EXPERT LEVEL MACHINING AND WELDING ON THE COMPONENTS PARTS OF THE ASSEMBLIES SHOWN HEREON. ANY DEVIATIONS FROM THESE PLANS BY THE FABRICATOR MUST BE APPROVED IN WRITING BY THE DESIGNER OR ALL RESPONSIBILITY FOR THEIR USE RESTS WITH THE FABRICATOR AND MANUFACTURER OF THE FINAL PRODUCT. THE END USER OF PARTS ASSEMBLED FROM THESE PLANS UNDERSTANDS THAT BUILDING CUSTOM MADE CHOPPER PARTS IS EXTREMELY DANGEROUS AND THEY SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY FOR USING PARTS MADE FROM THESE DRAWINGS.
3. PART NUMBERS SHOWN HEREON ARE FROM THE 45-RESTORATION COMPANY CATALOG AT HTTP://WWW.45RESTORATION.COM OR FROM McMASTER-CARR AS NOTED.
4. IT IS THE FABRICATORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS WITH SELECTED COMPONENTS AND PARTS AGAINST THE DESIGN DIMENSIONS OF THE PLANS AND TO MAKE DIMENSIONAL ALTERATIONS WHERE REQUIRED TO MEET THE REQUIREMENTS OF THE INTENT OF THE DESIGN. PROTOTYPES OF THIS DESIGN HAVE BEEN BUILT BY SEVERAL BUILDERS SO ACCOMODATING DIFFERENCES IN SPECIFIC COMPONENTS HAS NOT BEEN A SERIOUS PROBLEM WITH THE IMPLEMENTATION OF THE BASIC DESIGN.
5. THE MATERIALS AND SPECIFICATIONS FOR COMPONENTS SHOWN HEREON ARE BASED UPON THE END PRODUCT BEING USED ON A CUSTOM CHOPPER WEIGHING NO MORE THAN 650 POUNDS RUNNING WEIGHT WHICH INCLUDES THE DRIVERS WEIGHT.
6. THESE PLANS ARE INTENDED TO BE USED IN THE FABRICATION OF FORKS HAVING A MAXIMUM EXTENSION OF 12-INCHES OVER STOCK AND NO RESPONSIBILITY IS TAKEN BY THE DESIGNER FOR FORKS BUILT BEYOND THIS DIMENSIONAL LIMIT.

FABRICATION NOTES

1. THIS DIMENSION IS CRITICAL AND IS BASED UPON THE AMOUNT OF TRAVEL OF THE FRONT (SPRUNG) LEGS OF THE FORK ASSEMBLY. IN OUR DESIGN THIS DIMENSION IS ESTABLISHED BY USING COMMONLY AVAILABLE MAIN SPRINGS THAT RANGE IN FREE LENGTH FROM 6.625 TO 7-INCHES. YOU CAN HOWEVER PURCHASE MAIN SPRINGS THAT ARE 8-INCHES IN LENGTH. IF YOU USE THE LONGER SPRINGS THE LOCATION OF THE BRIDGE MUST BE MOVED DOWNWARD TOWARD THE ROCKER BY ONE HALF INCH AND THE SPRING PERCH WILL NEED TO BE MOVED UPWARDS TOWARDS THE TOP TREE. IT IS IMPERITIVE THAT THE BUILDER VERIFY ALL SPRING DIMENSIONS AND TAKE INTO ACCOUNT MODIFICATIONS NEEDED IN THE PLAN DIMENSIONS TO ACCOMODATE THE SPECIFICALLY PURCHASED COMPONENTS FOR A PARTICULAR PROJECT.

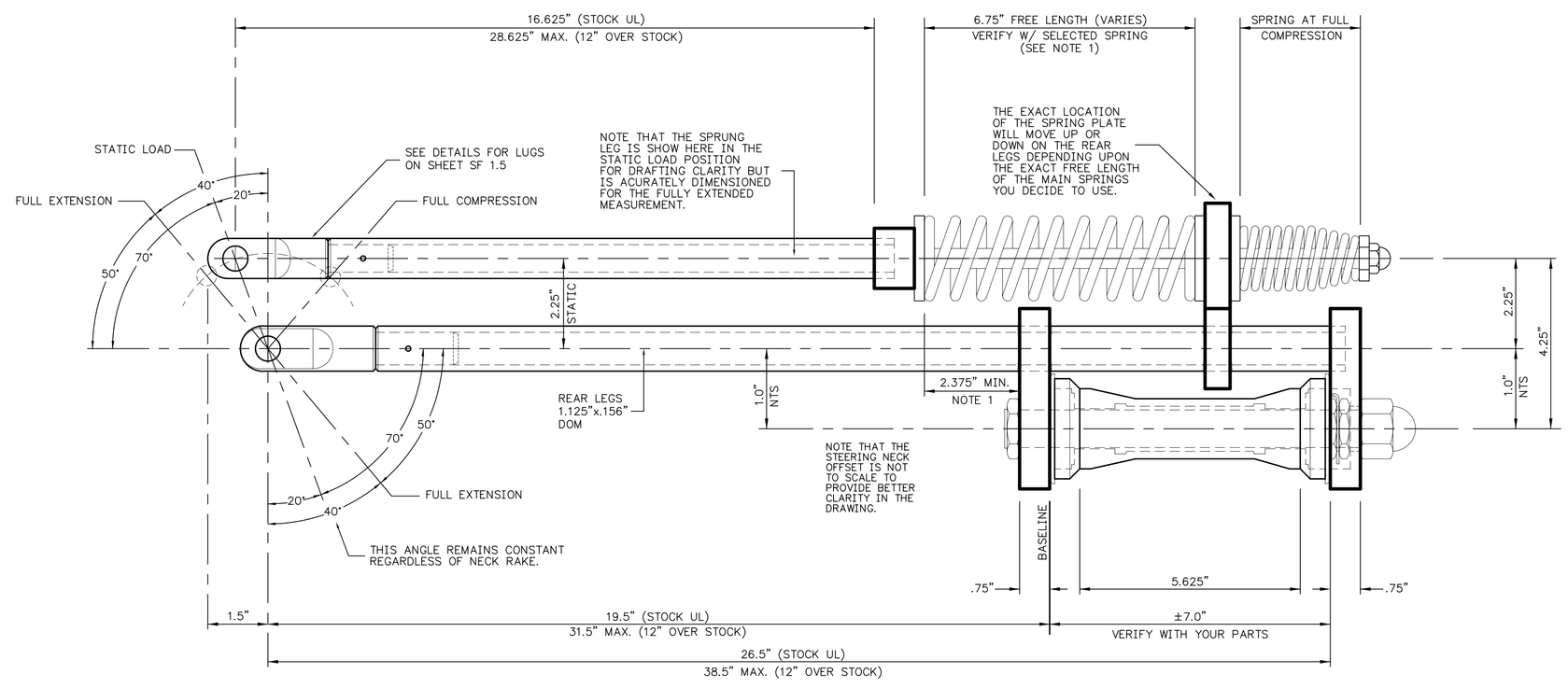
FRONT LEG TUBING SCHEDULE

EXTENSION	TUBING
0"	1.0"O.D.x.156"I.D.
2"	1.0"O.D.x.156"I.D.
4"	1.0"O.D.x.172"I.D.
6"	1.0"O.D.x.172"I.D.
8"	1.0"O.D.x.180"I.D.
10"	1.0"O.D.x.188"I.D.
12"	1.0"O.D.x.188"I.D.



FRONT VIEW - SPRUNG LEGS

SCALE 1/2" = 1"



SIDE VIEW

UNIT IS SHOWN IN THIS VIEW, ASSEMBLED, IN FULL EXTENSION, PRIOR TO MOUNTING ON THE BIKE.

SCALE 1/2" = 1"

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GARY W. WEISHAUPT

PERFORMANCE ENGINEERING
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• INITIAL LAYOUT	6-12-01
• AS-BUILT REVISIONS	8-22-02
• AS-BUILT REVISIONS	11-16-03
• AS-BUILT REVISIONS	12-20-03
• BUILDER REVISIONS	2-8-04
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Key Plan

Project Title

CHOPPER BUILDERS HANDBOOK

SPRINGER FORKS

PLAN SPF-19-1

Drawn By	GWW
Date	11-14-05
Checked By	HC
Date	11-16-05
Scale	1/2" = 1"
Plot At	.5" = 1"
Project No.	-

Sheet Description

FORK ASSEMBLY

Sheet No.

SF1.3