

1. SCOPE

- 1.1. THE TENNESSEE DEPARTMENT OF TRANSPORTATION IS SEEKING TO PROCURE NINE (9) PLOTTERS AND HAVE TEN (10) PLOTTERS REMOVED. THIS DOCUMENT PROVIDES DETAILED SPECIFICATIONS FOR THE PROCUREMENT OF DEVICES THAT WILL PERFORM PLOTTING, COPYING, AND SCANNING OF TDOT DOCUMENTS.
- 1.2 THE INTENT OF THIS BID IS TO PURCHASE THE NECESSARY QUANTITIES OF THE PLOTTER/SCANNER/COPIERS LISTED ON LINES 1 AND 3. TDOT IS PROCURING SIX (6) PLOTTERS WITH SCANNER CAPABILITIES AND THREE (3) PLOTTERS WITH NO SCANNING CAPABILITY. THE DELIVERY ADDRESSES FOR THE NEW PLOTTERS IS LISTED IN SECTION 4.0.
- 1.3 TEN (10) PLOTTERS MUST BE REMOVED AS PART OF THIS SOLICITATION. THERE LOCATIONS ARE LISTED IN SECTION 4.0.

2. HARDWARE TECHNICAL REQUIREMENTS

2.1 GENERAL REQUIREMENTS

- 2.1.1. MUST USE THE EXISTING BENTLEY INTERPLOT MID VOLUME DRIVER PACK UTILIZING AT LEAST THE BENTLEY SELECT SERVER VERSION 08.11.07.443.
- 2.1.2. MUST BE ABLE TO USE BENTLEY'S INTERPLOT SOFTWARE TO PLOT MICROSTATION PLAN SHEET FILES.
- 2.1.3. MEDIA SUPPLY IS SCALABLE, UPGRADEABLE FROM 2 TO 4 ROLLS ON-LINE, 500 FOOT ROLLS OF MEDIA, WITH OPTIONAL MANUAL SHEET BYPASS.
- 2.1.4 AUTO AND MANUAL ROLL SELECTION AND AUTOMATIC ROLL-SWITCHING.
- 2.1.5. ABILITY TO USE BOND, FILM, AND VELLUM MEDIA TYPES.
- 2.1.6. MINIMUM OF 600 DPI PRINT RESOLUTION.
- 2.1.7. MINIMUM OF 256 LEVELS OF GRAYSCALE.
- 2.1.8. MUST HAVE MICRODENSITY OR INK TONER SYSTEM.
- 2.1.9. OUTPUT SPEED RATED UP TO NINE AND SEVEN-TENTHS (9.7) D-SIZE (24" X 36") PRINTS PER MINUTE. SEVEN (7) D-SIZE PRINTS PER MINUTE IS THE MINIMUM OUTPUT SPEED.
- 2.1.10. MINIMUM OUTPUT SIZE IS 8.5" X 11" AND MAXIMUM OUTPUT SIZE IS 36" X 49.2" (COPY MODE), 36" X 49.2" (PRINT MODE).
- 2.1.11. CATCH TRAY MUST HOLD AT LEAST 100 D-SIZE DOCUMENTS.
- 2.1.12. DEVICE MUST BE TRUE MULTIFUNCTIONAL CONCURRENT DEVICE. SCAN, COPY, PRINT, SCAN-TO-FILE.
- 2.1.13. PRINTER MUST BE ABLE TO NATIVELY ACCEPT HPGL, HPGL/2, TIFF 6 (INCLUDING LZW COMPRESSION), PDF VER. 1.6 AND HAVE MICROSOFT SIGNED WINDOWS PRINT DRIVERS.
- 2.1.14. INDEPENDENT OPERATION OF SCANNER AND PRINTER TO IMPROVE THROUGHPUT AND UPTIME. IF THE PRINTER IS INOPERABLE, THE

SCANNER MUST STILL BE FUNCTIONAL FOR SCAN TO FILE OPERATION AND IF THE SCANNER IS INOPERABLE, THE PRINTER MUST STILL BE FUNCTIONAL FOR NETWORK PRINTING.

- 2.1.15. GRAPHICAL PRINTER INTERFACE TO COMMUNICATE PRINTER STATUS, MEDIA TYPE, SIZE AND AVAILABILITY, LOCATION OF JAMS, STATUS OF EACH IMAGE IN CURRENT PRINT JOB.
- 2.1.16. EACH PAGE MUST HAVE A MAXIMUM 3MM MARGIN.
- 2.1.17. SEALED MEDIA DRAWER OPTION TO REDUCE WRINKLED OUTPUT IN AREAS WITH HUMIDITY PROBLEMS. THIS SEALED DRAWER MAY BE INSTALLED IN ANY ONE OF THE THREE DRAWER SLOTS.
- 2.1.18. POWER REQUIREMENTS: MAXIMUM 220 V AC.
- 2.1.19. MUST INCLUDE ONE (1) DAY OF MANUFACTURER'S DEDICATED SYSTEM ANALYST CONSULTING SERVICES PER UNIT FOR INSTALLATION.
- 2.2. COPYING
 - 2.2.1. REDUCTION/ENLARGEMENT: 25% TO 400% (IN 0.1% INCREMENTS), AUTO SELECT, MANUAL SELECT OR PRESENT RATIO INCLUDING CUSTOM SIZES. MAXIMUM ENLARGEMENT OR REDUCTION TO BE ACHIEVED IN A SINGLE STEP.
 - 2.2.2. AUTO AND MANUAL ROLL SELECTION.
 - 2.2.3. SUPPORT FOR PRINTING VARYING SIZES (STANDARD AND NON-STANDARD) IN A SINGLE JOB WITH NO OPERATOR INTERVENTION REQUIRED AT THE PRINTER.
 - 2.2.4. ABILITY TO RECALL LAST COPY JOB FROM SCANNER TO MAKE CHANGES TO NUMBER OF COPIES, OR REDUCTION / ENLARGEMENT FACTORS WITHOUT RESCANNING JOB.
 - 2.2.5. FULL CONTROL OF PRINTER: INTERRUPT CURRENT JOB WITH A RUSH JOB AND HAVE THE INTERRUPTED JOB CONTINUE FROM WHERE IT WAS WHEN INTERRUPTED.
- 2.3. SCANNING
 - 2.3.1. CMOS IMAGING SCANNER OR EQUIVALENT. BLACK/WHITE AND COLOR RECOGNITION. 256 LEVELS OF GRAYSCALE.
 - 2.3.2. MUST BE ABLE TO SCAN TO FILE.
 - 2.3.3. ABILITY TO SET THE SCANNING RESOLUTION. SELECTABLE 75 TO 600 DPI. MAXIMUM OF 600 DPI.
 - 2.3.4. MINIMUM SCAN SPEED OF 2 INCHES PER SECOND (IPS) AT RESOLUTION OF 400 DPI, AND 4 INCHES PER SECOND (IPS) AT 200 DPI.
 - 2.3.5. ABILITY TO UPGRADE SCANNER SPEED FROM 2 TO 4, OR 8 INCHES PER SECOND (IPS) AT 600 DPI WITHOUT REPLACING SCANNER.
 - 2.3.6. ABILITY TO SCAN FROM 4.5" X 5.5" DOCUMENTS UP TO 36" X 100' DOCUMENTS.
 - 2.3.7. ABILITY TO INPUT 5.5" X 42" WIDE DOCUMENTS (SCREEN CAPTURE

TO 36").

- 2.3.8. ABILITY TO SCAN THICK DOCUMENTS - UP TO 1/2 INCH THICK (FOAM CORE MOUNTED, ETC.)
- 2.3.9. AUTOMATIC DYNAMIC BACKGROUND SUPPRESSION AND AUTO WIDTH DETECTION OF THE ORIGINALS.
- 2.3.11. COPY MODES: NORMAL, LINE AND PHOTO.
- 2.3.12. LEAD AND TRAIL EDGE ADJUST WITH AUTO CENTER ALIGNMENT.
- 2.3.13. ABILITY TO STORE AND RECALL UP TO NINE (9) COMMONLY USED JOB SETTING TEMPLATES ON THE SCANNER.
- 2.3.14. SCANNER INCLUDES THE FOLLOWING FEATURES: IMAGE TRANSFORM, MIRROR AND SAMPLE COPY.
- 2.3.15. SETS BUILD: COLLATION FORWARD AND REVERSE ORDER, LAST JOB RECALL, AND REPRINT WITHOUT SCANNING.
- 2.3.16. SUPPORT FOR ALL FEATURES RELATED TO THE DOCUMENTS IN A SET; STAMPING, SCALING OUTPUT SIZE, WATERMARKS, AND LABELS.
- 2.3.17. PRINTER INTERRUPT (PAUSE PRINT JOBS SO COPY JOBS CAN BE RUN IMMEDIATELY).
- 2.3.18. ABILITY TO RETRIEVE SCANS VIA A STANDARD WEB BROWSER.
- 2.4. SYSTEM CONTROLLER
 - 2.4.1. EMBEDDED AND DEDICATED CONTROLLER WITH MINIMUM OF 1GB OF MEMORY AND 80GB HARD DRIVE (or equivalent). DEDICATED OPERATING SYSTEM ARCHITECTURE DESIGNED TO EXCLUDE PUBLIC ACCESS AND MITIGATE RISK OF VIRUS.
 - 2.4.2. DATA FORMATS: HPGL, HPGL/2, HP-RTL, TIFF 6.0 (INCLUDING LZW COMPRESSION), AND TRUE ADOBE POSTSCRIPT 3 WITH PDF 1.6 SUPPORT.
 - 2.4.3. SOFTWARE: PRINT DRIVERS FOR WINDOWS 2015 SIGNED BY MICROSOFT CORPORATION. ADOBE POSTSCRIPT 3 DRIVERS FOR WINDOWS 2015 SIGNED BY MICROSOFT CORPORATION.
 - 2.4.4. UNLIMITED USER SUBMISSION TO THE CONTROLLER.
 - 2.4.5. EMBEDDED CONTROLLER. NO NEED FOR EXTERNAL PC.
 - 2.4.6. CONTROLLER ARCHITECTURE EXCLUDES PUBLIC ACCESS.
 - 2.4.7. SYSTEM SECURITY DISABLEMENT MUST BE A FUNCTION THAT CAN BE ACCOMPLISHED BY TOOT I.T. SYSTEM ADMINISTRATOR.
 - 2.4.8. CONTROLLER MUST HAVE THE OPTION FOR REMOVABLE HARD DRIVE FOR DOCUMENT SECURITY. IF PROPOSED PLOTTER CAN MEET TDOT SECURITY REQUIREMENTS, TDOT WILL WAIVE THIS REQUIREMENT.
- 2.5. SERVICE AND SUPPORT

- 2.5.1. ALL SERVICE SUPPORT MUST COME FROM ORIGINAL EQUIPMENT MANUFACTURER (NO OUTSOURCING OF SERVICES).
- 2.5.2. FACTORY TRAINED SERVICE TECHNICIANS WITH A MINIMUM OF THREE FACTORY TRAINED SERVICE (3) YEARS EXPERIENCE ON PRODUCT. IF THE PRODUCT BEING PROPOSED HAS BEEN ON THE MARKET FOR LESS THAN THREE (3) YEARS, SERVICE TECHNICIANS CAN HAVE LESS THAN THREE (3) YEARS OF EXPERIENCE ON THE PRODUCT BEING PROPOSED, BUT THEY MUST HAVE SOME EXPERIENCE IN THE PRODUCT BEING PROPOSED WITH A TOTAL OF THREE (3) YEARS OF EXPERIENCE INCLUDING SIMILAR EQUIPMENT.
- 2.5.3. RESPONDENT MUST HAVE TECHNICIANS WHO RESIDE IN THE STATE OF TENNESSEE AND ARE DEDICATED TO THE MANUFACTURER.
- 2.5.4. ALL HARDWARE TECHNICAL MANUFACTURER SUPPORT MUST COME FROM EQUIPMENT MANUFACTURER. RESPONDENT MUST HAVE A MINIMUM OF THREE (3) YEARS AS A PROVIDER OF AWARDED SYSTEM.

3. WARRANTY.

- 3.1. THE SYSTEM, INCLUDING EQUIPMENT AND SOFTWARE, SHALL BE WARRANTED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP. THIS WARRANTY APPLIES TO ALL EQUIPMENT AND PERIPHERALS INCLUDED IN THE BID SUCH AS CABLES, INTERNAL COMPONENTS, ETC., BUT WILL NOT CONTAIN CONSUMABLES. THIS WARRANTY SHALL ALSO INCLUDE ALL SOFTWARE MAINTENANCE RELEASES AND SOFTWARE UPGRADES. THE WARRANTY SHALL COVER ALL DAMAGES TO THE EQUIPMENT AND SOFTWARE AS A RESULT OF DEFECTS IN MATERIALS AND WORKMANSHIP, AND SHALL NOT COVER ABUSE.
- 3.2. THIS FULL SERVICE WARRANTY SHALL BE ESTABLISHED FOR BOTH THE FULL SERVICE PLOTTER / COPIER / SCANNER DEVICE AND THE MINIMAL PLOTTER ONLY DEVICE.
- 3.3. ON-SITE WARRANTY WILL CONSIST OF: CLEANING, OILING (IF NEEDED), ADJUSTING AND REPLACING PARTS WHEN NEEDED.
- 3.4. ALL PARTS INCLUDING CONTROLLERS, BUT EXCLUDING CONSUMABLES SHALL BE REPLACED AT NO CHARGE. NO RECONDITIONED, USED OR REMANUFACTURED PARTS WILL BE ACCEPTED.
- 3.5. THE VENDOR SHALL PERFORM PREVENTATIVE MAINTENANCE INSPECTIONS DURING THE WARRANTY PERIOD PER MANUFACTURERS RECOMMENDATION AT NO ADDITIONAL CHARGE.
- 3.6. THE VENDOR SHALL RESPOND TO ALL SERVICE CALLS ON-SITE WITHIN 7.5 WORKING HOURS AFTER THE AGENCY REQUEST AND MUST RETURN THE EQUIPMENT TO FULLY OPERATIONAL STATUS IN NO MORE THAN 5 BUSINESS DAYS.
- 3.7. MAINTENANCE WARRANTY INSPECTIONS, WHEN REQUESTED, MUST BE PERFORMED DURING THE STATE'S NORMAL BUSINESS HOURS (8:00 AM - 4:30 PM), MONDAY - FRIDAY, EXCLUDING LEGAL HOLIDAYS.
- 3.8. TOLL FREE TECHNICAL SUPPORT WILL BE AVAILABLE DURING THE STATE'S NORMAL BUSINESS HOURS (8:00 AM - 4:30 PM), MONDAY -

FRIDAY, EXCLUDING LEGAL HOLIDAYS., AND SUPPORT WILL BE ALSO BE AVAILABLE VIA WEBSITE. THE VENDOR'S WEB ADDRESS AND TOLL FREE PHONE NUMBER _____.

- 3.9. THE STATE OF TENNESSEE WILL NOT PAY THE VENDOR FOR OVERTIME AFTER THE STATE'S NORMAL BUSINESS HOURS.
 - 3.10. THE STATE OF TENNESSEE WILL NOT PAY THE VENDOR FOR ANY TRAVEL EXPENSE INCURRED.
 - 3.11. THE VENDOR MUST BE TRAINED ON THE EQUIPMENT LISTED FOR THIS SOLICITATION. AT THE STATE'S, REQUEST, THE VENDOR MAY BE REQUIRED TO FURNISH EVIDENCE OF SUCH TRAINING. EQUIPMENT PROVIDED IN THIS SOLICITATION MUST BE MAINTAINED IN ACCORDANCE WITH FACTORY STANDARDS.
 - 3.12. SOFTWARE MAINTENANCE RELEASES ARE DEFINED AS SOFTWARE THAT FIXES BUGS IN THE CURRENT SOFTWARE VERSION, AS WELL AS MINOR ENHANCEMENTS TO THE CURRENT SOFTWARE VERSION.
 - 3.13. SOFTWARE UPGRADES CONSIST OF ALL ENHANCEMENTS TO THE SOFTWARE INCLUDING, BUT NOT LIMITED TO INCREASING THE FUNCTIONALITY OF THE SOFTWARE.
 - 3.14. THE WARRANTY AGREEMENT SHALL BEGIN UPON THE DATE OF INSTALLATION OF THE HARDWARE AND SOFTWARE, AND SHALL BE FOR THE DURATION OF ONE YEAR.
- 4.0. LOCATIONS OF PLOTTERS TO BE REMOVED AND INSTALLED
- 4.1. 505 DEADERICK STREET, NASHVILLE TN 37243
6TH FLOOR - ONE PLOTTER REMOVED/INSTALLED
9TH FLOOR - ONE PLOTTER REMOVED/INSTALLED
12TH FLOOR - ONE PLOTTER REMOVED/INSTALLED
13TH FLOOR - THREE PLOTTERS REMOVED/ TWO PLOTTERS INSTALLED
 - 4.2. 6601 CENTENNIAL BLVD, NASHVILLE TN 37243 - ONE PLOTTER REMOVED/INSTALLED
 - 4.3. 4005 CROMWELL RD, CHATTANOOGA TN 37421 - ONE PLOTTER REMOVED/INSTALLED
 - 4.4. 300 BENCHMARK PL, JACKSON TN 38301 - ONE PLOTTER REMOVED/INSTALLED
 - 4.5. 7435 REGION LN, KNOXVILLE TN 37914 - ONE PLOTTER REMOVED/INSTALLED
 - 4.6. HEAVY DUTY DOLLIES SHOULD BE SUFFICIENT TO REMOVE/INSTALL THE PLOTTERS. ALL LOCATIONS HAVE ELEVATORS AND LOADING DOCKS. PLOTTERS WILL NOT REQUIRE SPECIALIZED EQUIPMENT TO REMOVE.