DRAWING APPROVAL Kaikor Construction CERTIFIES THAT FIBERGRATE COMPOSITE STRUCTURES INC. DRAWING #724417, SHEET(S) 1 THROUGH 4 REV CHAVE BEEN CAREFULLY REVIEWED AND HEREBY RELEASES THESE DRAWINGS FOR FABRICATION Coversheet for: WITH THE FOLLOWING IN FORCE: 1) FIBERGRATE COMPOSITE STRUCTURES INC. ASSUMES FULL RESPONSIBILITY FOR THE ACCURATE TAKE-OFF OF QUANTITIES AND DIMENSIONS AS SHOWN IN CONTRACT OR BID DRAWINGS, PROVIDED TO FIBERGRATE COMPOSITE STRUCTURES INC., FROM WHICH THESE DRAWINGS WERE Kaikor Construction 2) Kaikor Construction ASSUMES FULL RESPONSIBILITY FOR CORRECTNESS OF ACTUAL FIELD DIMENSIONS IN ACCORDANCE WITH EITHER THE CONTRACT DRAWINGS, OR WITH THE DIMENSIONS CORRECTED ON THIS DRAWING. ANY VARIATION RESULTING IN ADDITIONAL COST IS THE RESPONSIBILITY OF: Kaikor Construction. APPROVED FOR PRODUCTION Project: FRP Walkways & Ladder Honolulu, HI MAKE REVISIONS AS NOTED AND PROCEED PROCEED WITH PRODUCTION NO CHANGES REQUIRED. (CONTRACTOR SIGNATURE) **REVISE AND RESUBMIT** REVISE AND RESUBMIT FOR APPROVAL WITH THE CHANGES AS NOTED. In addition to field connections shown, DRAWING INDEX (CONTRACTOR SIGNATURE) corrections of minor misfits and a reasonable amount of cutting is considered as Sheet 1. Coversheet a part of erection. Any error which pre-Bridge @ Bent 12 & 13 vents assembly by moderate use of 3. Roadway @ Ladder 1 & 2 cutting is to be received and approval of correction or change is to be re-4. Details celved in writing before proceeding. Failure to Comply will relieve Fibergrate Composite Structures, Inc. of Responsibility. **GENERAL NOTES** 1. ALL GRATING TO BE HELD DOWN WITH FIBERGRATE'S SS316 HOLD-DOWN CLIPS (HDCS); 4-6 HDCS PER GRATING PIECE. OPEN MESH GRATING MAY BE LEFT UN-HELD IN CASE OF NARROW TRENCHES BUT COVERED GRATING SHOULD BE HELD DOWN IN ALL CASES AND IN ALL SUPPORT CONDITIONS. IN CASE OF CONCRETE-EMBED-ANGLE SUPPORT, CONCRETE-ANCHORS MAY HAVE TO BE USED IN CONJUNCTION WITH HDCS. 2. FIBERGRATE'S SQUARE MESH MOLDED GRATING IS BI-DIRECTIONAL. FIBERGRATE'S RECTANGULAR MESH MOLDED GRATING IS TO BE TREATED AS UNI-DIRECTIONAL. FIBERGRATE'S PULTRUDED GRATING IS UNI-DIRECTIONAL. 4. FIBERGRATE'S STANDARD SQUARE TUBE GUARDRAIL SYSTEM CONSISTS OF 2-1/8" X 2-1/8" X 3/16" SQUARE TUBE POSTS, 1-3/4" X1-3/4"X1/8" SQUARE TUBE RAILS 5. FIBERGRATE'S STANDARD FIXED LADDER SYSTEM CONSISTS OF 1-3/4" X 1-3/4" X 1/4" SQUARE TUBE RAILS AND 1-1/4" DIAMETER FLUTED RUNGS. SAFETY CAGES ARE PROVIDED 6. ALL SHOP CUT EDGES AND DRILLED HOLES TO BE RESIN SEALED PRIOR TO SHIPPING. 7. SOME FIELD FABRICATION MAY BE REQUIRED, ALL FIELD CUT EDGES AND DRILLED HOLES TO BE SEALED USING BILL OF MATERIALS PART NO. A. These stop bruning one included for releve. Meed to include in as-built? 8. ALL F.R.P. MEMBERS SHALL BE FABRICATED BY FIBERGRATE INTO SUBASSEMBLIES TO FACILITATE FIELD ERECTION. THE F.R.P. WALKWAYS, HANDRAILS & STRINGERS SHALL BE SHOP FABRICATED AND SHOP ASSEMBLED INTO THE LARGEST PRACTICAL SIZE SUITABLE 9. IT SHALL BE THE FIELD'S RESPONSIBILITY TO ASSURE PROPER FIT-UP OF F.R.P. ASSEMBLIES. THIS INCLUDES VERIFICATION OF AS-BUILT CONDITIONS. IN CASE OF CONCRETE MISALIGNMENT INCORRECTLY PLACED OR MISSING EMBEDS., THE FIELD SHALL MODIFY THE F.R.P. SUBASSEMBLIES AND PROVIDE THE REQUIRED ANCHORAGES. 10. CUTTING, FITTING, AND PLACEMENT: PERFORM CUTTING DRILLING, AND FITTING REQUIRED FOR INSTALLATION OF F.R.P. FABRICATIONS. SET F.R.P. FABRICATION ACCURATELY IN LOCATION ALIGNMENT, AND ELEVATION; WITH EDGES AND SURFACES LEVEL, PLUMB, TRUE, AND FREE OF RACK; AND MEASURED FROM ESTABLISHED LINES AND LEVELS. 11. ALL ANCHOR BOLTS TO BE PROVIDED (BY OTHERS) 12. CONTRACTOR TO ENSURE THAT GRATING IS SUPPORTED AT INTERVALS AS DETERMINED FROM JOB SPECIFICATIONS AND FIBERGRATE'S PUBLISHED GRATING-LOAD-DEFLECTION CHARTS. 13. ALL DIMENSIONS TO BE VERIFIED BY CONTRACTOR. CONTRACTOR ALSO TO VERIFY DIMENSIONS Detail Legend: SHEET NUMBER REFERENCE ONLY FRP = FIBERGUALS REINFORTO GRATING: CORVEX 1" DEEP 1 1/2" SQ. MESH MOLDED GRATING FABRICATION TOLERANCES (U.N.O.) Kaikor Construction LEGEND: MOLDED | PULTFUDED | DYNAFORM GRATING GRATING COLOR: DK. GRAY SURFACE: MENISCUS +1/8,-5/16 r------WIDTH +1/8,-5/16 ! "These drawings are for approval only, and are 382-06 HOLE LOC. ±1/16 ±1/16 ±1/16 not intended for use as fabrication drawings" CIRC. CUTS ±3/16 ±3/16 NOTCHES 12/30/09 Ethan Love P.E. R. Carter SQUARE OF CUT 1º ISOFR ISOFR ANGULARITY COLOR: SL. GRAY | COLOR: YELLOW Fibergrate Composite Structures Inc. CONTRACTOR TO VERIFY 000425 DO NOT STACK TOLERANCES GRATING H.D.C. ASSYS.: Fiberglass Grating • Structurals • Fabrication 316 SS THIS DRAWING AND ALL DESIGN INFORMATION ALL DIMENSIONS 724417 IS THE SOLE PROPERTY OF FIBERGRATE Fibergrate COMPOSITE STRUCTURES INC. DRAWING IS NOT N.T.S. 01/04/09 **APPROVAL** TO BE DISCLOSED OR COPIED WITHOUT THE VS 01/04/09 Composite Structures WRITTEN AUTHORIZATION OF FIBERGRATE 1 OF 4 NO. BY REVISION CHKD. BY DATE 900 FM 205 • STEPHENVILLE, TEXAS 76401 COMPOSITE STRUCTURES INC. 0.0417





