

GENERAL REQUIREMENTS SECTION 1000

1.0 PROJECT LOCATION

This Project is located in Wellington, Florida. See Drawings for specific location.

2.0 SCOPE OF WORK

- A. The Work to be performed by the Contractor includes furnishings all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever necessary to modify, construct, complete, deliver and place in operation the subject Project as shown on the Drawings and/or as herein described as specified. All Work to be in accordance with the Contract Documents.

3.0 REFERENCE POINTS

- A. The reference points which will be provided by the Owner as mention in Article 4.05 of the General Conditions, will be the staking (or otherwise marking) of the baseline as shown on the Drawings. A benchmark for vertical control will also be provided. All construction staking to be provided by the Contractor.

4.0 GRADES, DIMENSIONS, AND ELEVATIONS

- A. Grades shown are finished grades. Written dimensions have preference over scaled dimensions. All elevations are based on the 1929 National Geodetic Vertical Datum (N.G.V.D.).

5.0 EXISTING STRUCTURES AND UTILITIES

- A. All known utilities have been shown on the Drawings according to the best information available. It is the Contractor's responsibility to contact all owners of structures or utilities above ground, on the surface, or below the ground, within the Project area so that said owners may stake, otherwise mark, or protect their facilities. The Contractor must provide facilities and be responsible for the protection of all structures, buildings and utilities, underground, on the surface, or above ground against trenching, dewatering, or any other activity connected with the Work throughout the entire Contract Time.
- B. When structures and utilities have been properly shown or marked and are disturbed or damaged in the execution of the Work, they must be repaired immediately in conformance with best standard practice and the approval of the owner of the damaged utility or structure. In the case of structures and utilities which have not been properly shown or located as outlined above and are disturbed or damaged in the prosecution of the Work, take whatever steps are necessary for safety and notify the affected utility owner and avoid any actions which might cause further damage to the structure or utility.
- C. Should the Work require repairs, changes, or modifications of the Owner's utilities as well as other utilities, it is the responsibility of the Contractor to provide for the maintenance of continuous water, sewage, electric, telephone and other utility services to all present customers of such utilities, unless approval in writing is secured from the applicable utility company or Owner for interruption of such service.

6.0 QUALITY CONTROL

- A. Testing Laboratory Services - All tests and analyses, which are called for in the Specifications and/or Drawings to be performed by an Independent Testing Laboratory, will be at the Contractor's expense unless otherwise specified, provided the tests and analyses determine that the material(s) and/or Work meets the requirements as specified. All such tests that pass or fail to meet the Project requirements are to be paid by the Contractor.
- B. Field Observations - Provide twenty-four (24) hour notification to the Engineer for all specified field observations, unless otherwise noted.

7.0 MOBILIZATION

- A. Consists of the preparatory Work and operations in mobilizing for beginning Work on the Project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the Project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by these Specifications, and State and local laws and regulations.

The costs of bonds, insurance and any other pre-construction expenses necessary for the start of the Work, excluding the cost of construction materials, is to be included in Mobilization.

- B. When the Bid Form includes a separate pay item for Mobilization, partial payments will be made in accordance with the following:

Percent of Original Contract Amount Earned	Allowable Percent of the Lump Sum Price for the Item
5	25
25	50
50	75
100	100

The standard retainage will be applied to these payments. Previous payments for Mobilization and unpaid amounts on Allowances will not be considered in calculating the percent of the Contract Price earned. Payments will be made in stepped increments as shown and will not be interpolated between steps.

- C. When the Bid Form does not include a separate item for Mobilization, all Work and incidental costs specified as being covered under Mobilization is to be included for payment under the several scheduled items on the Bid Form, and no separate payment will be made therefor.

8.0 MAINTENANCE OF TRAFFIC

- A. The Contractor's use of streets and highways for the Work to be done under these Specifications, shall conform to all applicable Municipal, County, State and Federal laws and regulations. Provide, erect, and maintain effective barricades, warning lights, and signs on all intercepted streets or highways for protection of the Work and safety of the public. All barricades or obstructions, which encroach on or are adjacent to the public rights of way, should be provided with lights, which are illuminated at all times between sunset and sunrise.
- B. Arrange Work to cause minimum disturbance of normal pedestrian and vehicular traffic and be responsible for providing suitable means of access to all public and private properties during all stages of the construction. Other than for an emergency safety condition, the Contractor must contact the Owner and Engineer for approval prior to completely blocking off any street to vehicular traffic during construction.

- C. Maintain traffic in accordance with Section 102 of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, 1991 Edition, except as follows:

- 1. Contractor is responsible for preparing Maintenance of Traffic plan. Submit plan for Owner or roadway authority (City, County, D.O.T.) review only if requested to do so by the Engineer.

When required by the roadway authority, the Maintenance of Traffic plan must be prepared by a person who is certified by the State of Florida to prepare such plan.

- 2. When the Bid Form does not include a separate item for Maintenance of Traffic, the costs are to be included for payment under the several scheduled items on the Bid Form, and no separate payment will be made therefore.

9.0 PLACING EQUIPMENT INTO SERVICE

- A. Do not operate or place into service or energize, electrical and mechanical equipment until approved by the Owner and Engineer. Such approval may be granted only after all interested parties have been duly notified, have given approval for placing the equipment into service, and all interest parties are present or waived their right to be present. Notify the Owner and Engineer as far in advance as possible of the dates that various items and equipment will be completed and ready for start-up.

10.0 SALVAGEABLE MATERIAL

- A. All salvageable material and/or equipment removed from the existing construction for which specific use, relocation or other disposal is not specifically noted on the Drawings or otherwise specified, will remain the property of the Owner and be turned over to him. All material and/or equipment not in salvageable condition as determined by the Engineer must be disposed of by the Contractor. The actual storage site for salvageable material will be designated by the Owner.

11.0 BORING LOGS, OTHER REPORTS AND DRAWINGS UTILIZED BY ENGINEER

- A. Boring Logs, other reports, and Drawings utilized by Engineer, if attached at the end of these Specifications, are provided for Contractor's information in accordance with paragraph 4 of the Instructions to Bidders and are not a part of the Contract Documents. There is no technical data in the Boring Logs, other reports or Drawings that should be relied on by the Contractor. There also were no other reports or drawings utilized by Engineer in preparation of the Contract Documents that contained data that could be relied on by the Contractor.

12.0 DISPOSAL OF EXCAVATED MATERIALS AND DEBRIS

- A. All excess excavated material and debris not required for backfill (unless otherwise noted), broken pipe, sidewalks, curbs and other concrete items, together with all roots, boards and other debris are to be disposed of by the Contractor at an appropriate legal site.

13.0 PROTECTION AND RESTORATION OF SURVEY MONUMENTS

- A. The Contractor shall be responsible for protecting and restoring all land and property corners, such as section corners, ¼ section corners, property corners or block control points, and for maintaining all horizontal and vertical control points. All surveying work shall be the responsibility of the Contractor and shall be performed under the supervision of a Florida Registered Land Surveyor. Survey points that will be destroyed during construction shall be properly referenced and replaced at the Contractor's expense with permanent monuments approved by the ENGINEER.

14.0 EQUIPMENT

- A. All construction equipment necessary and required for the proper construction of this project shall be on the construction site, in first-class working condition, and shall have been approved by the Engineer before construction is permitted to start. The Contractor shall provide such tamping tools and equipment as are necessary for the proper compaction of the backfill.

15.0 STORAGE SITES

- A. The contractor shall furnish, at his expense, properly zoned areas suitable for field offices, material storage and equipment service, and storage. The Contractor shall maintain these areas in a clean, orderly condition so as not to cause a nuisance in the area. The Contractor shall restore the storage area to its original or better condition, with all its appurtenances, in kind, to the satisfaction of the Engineer.

16.0 LABORATORY TESTS

- A. Except as otherwise provided, sampling and testing of all materials, and the laboratory methods and testing equipment required under these specifications shall be in accordance with the latest standards or tentative of the American Society for Testing Materials or the latest standards or methods of the American Association of State Highway and Transportation Officials (AASHTO).

- B. The testing of samples and materials shall be made at the expense of the Contractor, except where indicated otherwise. The Contractor shall furnish the required samples without charge. The Contractor shall give sufficient notification of the placing of orders for materials to permit testing. In locations where corings are taken by the approved testing lab, the Contractor shall be responsible for plugging these core holes.
- C. All material tests will be made by an independent testing laboratory to be selected by the Owner (refer to Supplementary Conditions). Where tests indicate that materials and/or construction quality are in accordance with specified requirements, the Contractor shall bear the testing cost. When tests reveal that conditions or materials do not comply with the specifications, the cost of such tests shall be assessed against the Contractor.

17.0 MEASUREMENT AND PAYMENT

- A. Payment shall be made at the Contract Unit Price or Lump Sum Prices as outlined hereafter. These prices shall be full compensation for all costs associated with completion of all the work in full conformity with the requirements as stated, shown, or both by the Plans and Specifications. The cost of any item(s) of work, which is not by a definite Contract Unit Price or Lump Sum Price, shall be included in the Contract Unit Price or Lump Sum Price to which the item(s) is most applicable.

END OF SECTION

SPECIFICATIONS

SECTION 02870

Basketball Standard

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Precast concrete site furnishings.

1.2 RELATED SECTIONS

- A. Section 02751 - Concrete Paving, Walks, Curbs and Gutters.
- B. Section 03300 - Cast-In-Place Concrete.
- C. Section 07920 - Sealants.

1.3 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM C 31 - Standard Practice for Making and Curing Concrete Test Specimens in the Field.
 2. ASTM C 33 - Specification for Concrete Aggregates.
 3. ASTM C 67 - Method of Sampling and Testing Brick and Structural Clay Tile.
 4. ASTM C 128 - Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate.
 5. ASTM C 140 - Specification for Concrete.
 6. ASTM C 150 - Specification for Portland Cement.
 7. ASTM C 260 - Standard Specification for Air-Entraining Admixtures for Concrete.
 8. ASTM C 494 - Standard Specification for Chemical Admixtures for Concrete.
- B. Precast/Prestressed Concrete Institute (PCI).
- C. American Concrete Institute (ACI): ACI 318 - Building Code Requirements for Structural Concrete.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Test Reports: Three copies, showing compliance with specified ASTM requirements.
 2. Preparation instructions and recommendations.
 3. Storage and handling requirements and recommendations.
 4. Installation methods.
- C. Shop Drawings:

1. Submit shop drawings of precast concrete items showing detail sections and profile for precast items. Details shall show reinforcing and special hardware required for fastening.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, three sample 6 inches by 12 inches (152 mm by 205 mm) size for each color selected or specified.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 1. Precast products shall be produced by a single manufacturer unless otherwise specified.
 2. Manufacturer shall submit evidence of having not less than five years successful production of this product.
 3. Manufacturer shall furnish certification attesting that materials meet specification requirements.
 4. PCI Standards: Comply with specified provisions and recommendations of the Precast/Prestressed Concrete Institute. (PCI).
 5. ACI Manual of Concrete Practice: Comply with specified provisions and recommendations of the American Concrete Institute. (ACI).
- B. Installer Qualifications:
 1. Subcontractor shall submit evidence of skill and not less than five years specialized experience with this product.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 1. Finish areas designated by Architect.
 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packaging and Shipping: Precast Concrete to be palletized, delivered in original unopened packaging with legible manufacturer identification, including size, piece number, quantities, manufacturer date and inspectors initials.
- B. Storage and Protection: Precast Concrete to be stored in secure area in original packaging. Protect from damage by other trades.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
 1. Do not work during freezing weather or on wet or frozen sub-base.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Wausau Tile Co., which is located at: P. O. Box 1520
9001 Bus Hwy. 51 ; Wausau, WI 54402-1520; Toll Free Tel: 800-388-8728; Tel:
715-359-3121; Email: wtile@wausautile.com; Web: www.wausautile.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section
01600.

2.2 MATERIALS

- A. Precast Material Requirements:
 - 1. Precast Cementitious Materials: Materials shall conform to the following
applicable ASTM Specifications:
 - a. Portland Cement: ASTM C 150 for Portland Cement.
 - 2. Aggregates shall conform to ASTM specifications, except that grading
requirements shall not necessarily apply:
 - a. Normal Weight: ASTM C 33 for Concrete Aggregates. Aggregates shall
be blended to meet individual project requirements.
 - 3. Other Constituents: Coloring pigments, integral water repellents, etc., shall be
previously established as suitable for use in concrete and either shall conform
to ASTM Standards where applicable, or shall be shown by test or experience
not to be detrimental to the durability of the concrete.
 - 4. Reinforcement and Hardware:
 - a. To conform to ACI and Manufacturer's design.
 - b. Reinforce precast with deformed rods or wire or both as recommended
by precast concrete manufacturer.
- B. Caulks and Sealants
 - 1. Urethane or Polyurethane Sealant.
 - 2. Color to be selected by Architect from standard color pallet.
- C. Sealer: Colorless, pure acrylic water-repellent penetrating sealer.
- D. Setting material, grouts, sealants and caulks.

2.3 FABRICATION

- A. Sizing Tolerances
 - 1. All units to conform to shop drawings, with a 1/8" tolerance in dimension.
- B. Precast Concrete Surfaces and Edges
 - 1. All exposed edges to have minimum 1/8" chamfer to prevent chipping.
 - 2. Finished surfaces to match approved control sample.
 - 3. All precast concrete finished surfaces to be sealed with a sealer approved by
manufacturer.
- C. Precast Concrete Performance Requirements:
 - 1. Compressive Strength: At the time of delivery to the work site, the compressive
strength shall not be less than 5,000 psi (kPa) per ASTM C 140.
 - 2. Air Content: 6 to 8 percent.
 - 3. Water-Cement Ratio: Maximum 0.45:1.

2.4 PRECAST CONCRETE FURNISHINGS

- 1. Playground Equipment Model TF7173. Aluminum Fan Basketball Backboard.
- 2. Playground Equipment Model TF7174. Official Size Rim
- 3. Playground Equipment Model TF7175. Standard. One piece concrete

construction. Color as selected from color series E.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Setting:
 - 1. Set accurately as shown on approved shop drawing. Setting methods shall be:
 - a. Mud Set.
 - b. Thin Set.
 - c. Weld.
 - d. Bolt.
 - e. Setting Clips/Hangers.
 - f. Tab Set.
 - 2. Alignment of precast should be straight and true to all dimensions. It may not vary more than 1/8 inch (3 mm) in length, height, or width.
 - 3. Install anchors as shown on details.
 - 4. Fill joints between with manufacturer approved caulk or as specified.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION



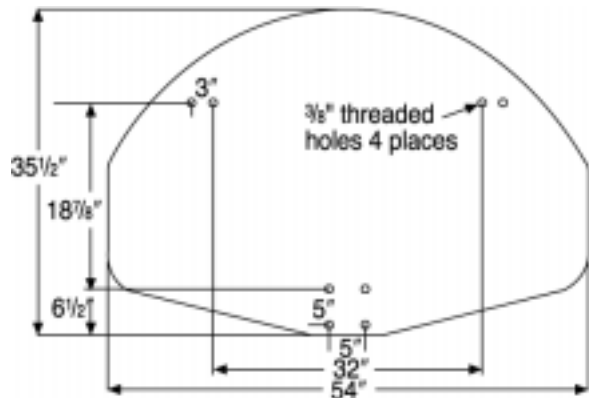
Manufactured By Bison Inc.
To Wausau Tile Specifications

6/04

TF 7173 Aluminum Fan Basketball Backboard



Size: 54" x 36" Fan
 Weight: 52 lbs.
 Material: 3/16" cast aluminum - Total thickness of 1 3/8"
 35' of support ribs cast into rear of backboard.
 Color/Surface: White powdercoat with official shooters square.
 Packaging: Shipped complete with all attaching hardware.
 Rim Options: See below.
 Warranty: Limited Lifetime.



Rim Options:

TF 7174 Front Mount Double-Rim Goal w/NO-Tie Netlocks



Rim shall consist of two official size 5/8" diameter steel rings welded together at no less than six places. Twelve individual netlocks shall be attached to the lower ring. The backplate shall be a minimum of 3/16" thick punched to mount on all front mount backboards. One 1/2" diameter and one 3/8" diameter rim support shall provide added strength. Mounting hardware shall be included. Rim must have a 1-year limited warranty, an orange powder coated finish, a nylon net, be made in the USA and weigh approximately 18 lbs.

TF 7178 Double-Rim Heavy-Duty Recreation Flex Goal



Rim shall be of a flexible type so to absorb the shock of player contact. Spring action shall be provided by a compression spring. Assembly shall consist of two official size 5/8" high strength steel rings welded together at a minimum of six places. The net attachment system shall be of a continuous type constructed of 3/16" x 1" steel with punched net attachment slots suitable for nylon (included) or chain (optional) nets. Rim shall be punched to mount on any front mount backboard, have a 1-year limited warranty, an orange powder coated finish. Mounting hardware shall be included. Rim shall be made in the USA and weigh approximately 29 lbs.

