

ADDENDUM

Addendum No. 3 (May 1, 2017)

To

Bid Documents

TOWN OF DAVIE

Bamford Park Artificial Turf Installation

Town Bid No. B-17-99

CGA Project No. 96-1630.112

To All Bidders:

Bidders for the above-referenced project shall take note of the following changes, additions, deletions, clarifications, etc. to the Plans and Specifications which, in accordance with the Contract Documents, shall become a part of and have precedence over anything shown or described otherwise.

RESPONSE TO CONTRACTOR QUESTIONS:

1. At the NW corner of the West field, there is a callout BOW: 3.50' Does this refer to the top of turf or bottom of the wall being the top of the stone pad shown in Section 1/PD3, which is a minimum of 12" below the lowest grade which would be the turf at 3.50'? Please Clarify?

Response: Yes, the top of turf at this location is 3.50'. Please review "wall elevation detail" on bottom right of sheet PD2 for clarification on the elevations called out on the plan.

2. At the ends and sides of the fields it indicates the "Flat Drainage" is required. This will require an additional "Corrutap" fitting since it is only manufactured as an elbow and a tee type is not manufactured. Since this is outside the playing area the water will follow the drainage stone to the exfiltration this condition shall add cost to the project. Can this additional flat drainage panels be deleted?

Response: Please see revised sheet PD2 for clarification.

3. In reviewing the details on drawing PD3 we notice that the minimum curb height is 18" per Detail 2, 3, 4, & 6. Normally we use 6x8 curbs at Fields to provide an anchor source for the nailer board to attach the synthetic turf. Realizing that this header curb doubles as an edge for the turf and a foundation for the CL Fence, it seems that an 8" wide curb x 12" deep (minimum below grade) curb would be sufficient. Please review and clarify?

Response: All curbs are to be per plans.

4. This detail indicates the base under the synthetic turf as 1.5" of #89 Top stone and 7.5" of #57 base stone for a total of 9". Normally, the base is a total of 6" comprised of 1.5" top stone and 4.5" stone base. Are there abnormal conditions on the site that would require a thicker base? Please clarify.

Response: The total depth is 8" (7" of #57 stone and 1" of #89 stone) as shown in revised sheet PD 4 as part of Addendum No.2.

5. Details on PD3 do not indicate the depth of embedment of the fence posts into the concrete curbs. Is it permissible to core drill the curbs after curing to specified depth (6"?) and grouting with non-shrink grout? Please clarify depth of embedment and coring.

Response: Please review sheet PD3 for annotation that the fence, posts and foundation is to be designed, permitted and constructed by the contractor.

6. There are gates shown on Drawing PD1 both single leaf and double leaf. However, no mention of the width desired for these gates. Please clarify sizes of gates.

Response: The plans annotate "Prop 4' gate mounted on header curb (typ)" on the single leaf indicating a single gate at 4' wide, and "Prop 12' gate mounted on header curb (typ)" on a double leaf indicating 2 gates at 6' each. Please review annotation provided on sheet PD1.

7. Detail 1/PD3 indicates a field wall padding and refers to the detail on that same sheet. Detail 2/PD3 does not indicate this padding however, at the transition of detail 1 to 2 at the west field, there is still 1.74' of wall exposed. Is this to be covered as well? Please clarify the extent of the wall padding?

Response: The field wall padding is only required where the gravity wall is constructed. However, please see revised sheet PD1 for confirmation.

8. At the South side of the East Field there is no flat drainage shown, Is it required? Please Clarify?

Response: No, it is not required.

9. Are the removable bollards per Detail B/PD3 limited to the three located at the Northeast corner?

Response: Yes, this is the only location the removable bollards are proposed.

10. At Detail 1/PD3 a ADA handrail is indicated. In review of drawing PD1 there is no ADA handrail indicated on the plan at the location of the detail cut. Please clarify as to the location and extent of the ADA Ramp desired.

Response: There are two location where ADA handrail is required; north and south of the existing restroom building on the north side of the project area. There is annotation pointing to these areas. Please review sheet PD1 for locations.

11. The detail indicates FDOT 862 Type for the handrail. Review of this indicates two heights 42" and 54". See attachment of FDOT 862 specs. It seems to be overkill since you have a fence at the curb. Please clarify if this is necessary.

Response: The railing is to be 42". Please see revised sheet PD3 for clarification.

12. On drawing PD2 there is a ramp with ADA handrail for 22 L.F. at the west side of the East Field at the north end. This ramp indicates a 7.7% slope. Right next to the ramp to the west is another ramp that is 22 LF long and a slope of 7.9%. Please clarify how these two ramps are coordinated as to the sides where the two ramps converge.

Response: Please see revised sheet PD2 for clarification.

13. Refer to paragraph 1.05-B Provide additional security as required by owner. This statement is open ended and eludes to perhaps the owner requiring 24/7 security by an outside source which would be very expensive. Please delete this statement.

Response: This statement shall remain in the specifications.

14. Please confirm there are no electrical drawings included in the project drawings for the electrical work indicated on Drawing PD1 per attached. Is there any other electrical work that is required?

Response: Correct. There are no electrical plans included in the bid set.

15. Referenced drawing PDI indicates there are steps to be repaired and replace rotten 4x4 wood posts. It is impossible to ascertain what is rotten and needs replacement per our view and the view of the owner. Do you have any photographs of the existing conditions that need repair or replacement?

Response: An allowance will be provided for the reconstruction of the wooden stairs. Please see revised Bid Form in Specification 00300.

16. Referenced drawing PDI indicates there are bleachers that need to be removed and re-installed after placement of the new concrete sidewalks. Do you have any photographs of the existing bleachers so we may anticipate the cost of reinstallation of the bleachers, or can you provide the original shop drawings of the bleachers?

Response: Please review the plans and perform a site visit.

17. Please provide height of existing fence for each enclosure. What is meant by contractor shall adjust gate as required. Is the gate to be rebuilt since the concrete is raised? Please clarify?

Response: The bottom of the gate is to be no more than 1" above the concrete surface in the closed condition. The gate needs to be able to move freely without scraping the concrete. The contractor is to adjust the gate if the gate cannot move freely without hitting the concrete sidewalk.

18. Does the contractor have any responsibilities at Governor LeRoy Collins Farm Park beyond simply dumping the spoils?

Response: No, The contractor is to dump the soil at a location determined by the Town within Governor LeRoy Collins Farm Park. Please coordinate with the Town.

19. Is there any more information available regarding the existing irrigation system?

Response: Unfortunately no. As-builts of the existing irrigation system are not available. An allowance will be provided for the adjustments to the existing irrigation system. Please see revised Bid Form in Specification 00300.

20. What accommodations are required regarding the Burrowing Owl Nesting Areas on site?

Response: None, The Town will be relocating the Burrowing Owl prior to commencement of construction.

21. Is the contractor required to maintain dry trenches for drainage pipes in the locations proposed with negative elevations?

Response: No, the contractor is use construction methods necessary to construct the drainage pipe per plans and specifications.

IN THE CONTRACT DRAWINGS:

1. Attached plans sheet C1, PD1, PD2, PD3 are **to be replaced**.

IN THE CONTRACT DOCUMENTS:

1. Per the Technical Specification Section 02863, for Synthetic Turf Grass, Section 2.01, the following manufacturers of synthetic grass have been added to the list of manufacturers/suppliers of synthetic turf for this project:
 - a. SprinTurf
2. In addition, paragraph 2.02(B) has been updated. Therefore, Specification Section 02863 is **to be replaced** in its entirety.
3. Specifications 00300, Bid Forms and 01012, Measurement and Payment are **to be replaced** in its entirety.

All other documents, specifications, drawings, terms and conditions remain the same. Bidders must acknowledge receipt of Addendum on Page 00300-8.

SECTION 02863

SYNTHETIC TURF GRASS SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish all labor, materials, tools and equipment necessary to install the synthetic turf grass system as depicted in the Drawings and specified herein.
- B. The installation of all synthetic turf grass shall be performed in strict accordance with the manufacturer's installation instructions.
- C. The synthetic turf grass and the infill shall be provided by the synthetic turf grass manufacturer.

1.02 RELATED SECTIONS

- A. Section 01050 – Field Engineering and Surveying
- B. Section 01340 – Shop Drawings, Working Drawings and Samples
- C. Section 01410 – Materials and Installation Testing
- D. Section 02210 – Finish Grading
- E. Section 02632 – Synthetic Turf Grass Drainage System
- F. Other Sections as Applicable

1.03 REFERENCES

At a minimum, and in addition to other industry reference standards, the following reference standards must be met:

- A. ASTM Standard Test Methods
 - 1. D1335 Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings.
 - 2. D 1577 Standard Test Method for Linear Density of Textile Fibers.
 - 3. D 2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.
 - 4. D 4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 - 5. D 5034 Standard Test Method of Breaking Strength and Elongation of Textile Fabrics (Grab Test).
 - 6. D 5848 Standard Test Method for Mass per Unit Area of Pile Yarn Floor Coverings.
 - 7. F 355-A Standard Test Method for Impact Attenuation of Playing Surface Systems and Materials.
 - 8. F 1015 Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces.

9. F 1551 Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials.
 10. F 1936 Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field.
 11. F 2898 Standard Test Method for Permeability of Synthetic Turf Sports Field Base Stone and Surface System by Non-Confined Area Flood Test Method.
- B. The Fédération Internationale de Football Association (FIFA)
 - C. 2001 NCAA and/or National Federation Football Rules and Interpretations; FIFA Rules of the Game. Where discrepancies are noted, the rules of the NCAA shall apply.
 - D. International Artificial Turf Standards and test methods.
 - E. FDOT Standard Specifications for Road and Bridge Construction.

1.04 SUBMITTALS

- A. Prior to construction, Contractor shall submit the following:
 1. Shop Drawings in accordance with Section 01340 – Shop Drawings, Working Drawings and Samples, including, at a minimum the following:
 - a. Field Layout
 - b. Field Marking Plans (colorized) and details as noted on the construction plans.
 - c. Roll/Seaming Layout
 - d. Methods of attachment, field openings and perimeter conditions.
 2. Quarry certifications demonstrating compliance with the material specifications for the drainage base stone and finishing stone.
 3. Synthetic Turf Grass
 - a. Submit two samples, minimum of 6x6 inch in size, illustrating details of finished product.
 - b. A letter and specification sheet certifying that the products of this section meet or exceed specified requirements.
 4. Infill Material
 - a. Submit a detail indicating the number and thickness of the layers of the infill materials and the type and percentage of materials used.
 - b. Heat reducing composite mix – provide a list of the type and source of the composite infill material included, and the thickness and percentages of the material in the top layer of the infill system, along with the types of materials and thickness of the layers under the top layer, as well as the certification of the grade and quality of all the infill materials used.
 - c. Documentation shall be provided for the proposed heat reducing composite infill which demonstrate heat reducing properties with testing results.

PART 2 - PRODUCTS

2.01 SYNTHETIC TURF GRASS

- A. Synthetic turf grass shall consist of a carpet made of slit-film, UV resistant, polyethylene fibers tufted into a fibrous, porous backing.
- B. The installed Synthetic turf grass system shall meet the International Artificial Turf Standards and have the following properties:

Standard	Property	Specification
ASTM D D5823	Pile Height	2-1/4" nominal, minimum*
ASTM D 1577	Fiber Denier	9000 <u>minimum</u>
ASTM D 5848	Pile Weight	40 oz./sq. yd. <u>minimum</u>
ASTM D 1335	Tuft Bind	8 lbs. (with infill)
ASTM D 5034	Grab Tear (width)	>200 lbs./force
ASTM D 5034	Grab Tear (length)	>200 lbs./force
ASTM F 1015	Relative Abrasiveness Index	<25
ASTM D 4491	Carpet Permeability	>40 inches /hour
ASTM F 355 & F 1936	Impact Attenuation, G-Max	100 Minimum 200 Maximum Less than 125 at Acceptance

*Pile height may be greater as determined by synthetic turf grass manufacturer if need to achieve required G-Max values given the infill system, with the approval of the Owner and Engineer.

- C. The carpet shall consist of fibers tufted into a primary backing with a secondary backing.
 - 1. The carpet's primary backing shall be a double-layered polypropylene fabric treated with UV inhibitors or per listed approved vendor's specifications.
 - 2. The secondary coating shall consist of an application of porous, heat-activated urethane to permanently lock the fiber tufts in place. Perforated (i.e. with punched or burned holes) backed carpet shall be acceptable as an alternate, per manufacturer's recommendations.
- D. The carpet shall be furnished in 15' wide rolls or the metric equivalent. Rolls shall be long enough to go from sideline to sideline without splicing. The perimeter white line shall be tufted into the individual sideline rolls. Head seams, other than at sidelines, will not be acceptable.
- E. Non-tufted or inlaid lines and markings shall be painted with paint approved by the Synthetic Turf Grass Manufacturer.

- F. Thread for sewing seams of turf shall be UV resistant and as recommended by the Synthetic Turf Grass Manufacturer.
- G. Glue and seaming fabric for inlaying lines and markings shall be as recommended by the Synthetic Turf Grass Manufacturer.
- H. In accordance with the Contract Documents, the following shall be provided at the time of Bid:
 - 1. Manufacturer Qualifications Statement:
 - a. The synthetic turf manufacturer's name, type of turf grass, and composition of fiber.
 - b. The synthetic turf grass manufacturer must have installed a minimum of either 5 fields in the State of Florida, or 50 fields in the United States of 40,000 square feet or more in service for a minimum of eight (8) years with the same products being proposed for this field.
 - c. Provide contact names, email addresses and phone numbers.
 - 2. A certified copy of the synthetic turf grass manufacturer's ISO 9000 certification.
 - 3. A statement from the synthetic turf grass manufacturer which states that their turf system does not violate any other manufacturer's patents, patents allowed, or patents pending.
 - 4. Certified copies of independent (third-party) laboratory reports for Reference Standards listed in paragraph 1.03, above.
- I. The synthetic turf grass shall be provided by one of the following manufacturers:
 - 1. Field Turf
 - 2. Astro Turf
 - 3. A Turf
 - 4. UBU Sports
 - 5. Shaw Sports Turf
 - 6. Limonta Sport
 - 7. SprinTurf
- J. Pre-bid Submittal Requirements: Manufacturers not listed above, shall submit the information as outlined and required in this section (Section 02863) in addition to completing the questionnaire titled 02863 Questionnaire included in the Bid documents. Bidders are required to bid only those synthetic turf, heat reducing infill manufacturers that have been approved by this specification or addendums. Bids that do not utilize an approved manufacturer will be rejected.

- K. If proposing “approved equal” synthetic turf grass, the Contractor shall submit the following items by Monday, 4/24/17 close of business to be considered in the addendums:
- a. A certified copy of the synthetic turf grass manufacturer’s ISO 9000 certification.
 - b. Two samples, 6x6 inch in size, illustrating details of finished product.
 - c. A completed Synthetic Turf Grass System Questionnaire (included at the end of this specification section).
 - d. To be considered equal, the alternative manufacture must be approved by Bid Addendums, and all pre-bid submittal requirements shall be submitted to the Owner/Engineer by Monday, 4/24/17 close of business.
 - e. A statement from the synthetic turf manufacturer’s name, type of fiber and composition of fiber.
 - f. A statement from the synthetic turf grass manufacturer which states that their turf system does not violate any other manufacturers’ patents, patents allowed or patents pending.
 - g. Certified copies of independent (third-party) laboratory reports for Reference Standards listed in paragraph 1.03, above.
 - h. Two representative samples (1 in each) of heat reducing composite infill.
 - i. A technical specification sheet and letter certifying that the product of this section meet or exceed specified requirements in this specification.

2.02 HEAT REDUCING COMPOSITE INFILL

- A. The infill system shall consist of resilient layered granular system, comprising of selected and graded sand, or a mixture of sand and S.B.R. crumb rubber or similar material, and a top layer of composite material with heat reducing properties.
 1. Documentation shall be provided for the proposed heat reducing composite infill which demonstrate heat reducing properties with testing results.
- B. The combination of infill materials shall be installed in the ratio and combined weight as determined by the Synthetic Turf Grass manufacturer which yields the required G-Max values and has a minimum combined weight of 8.0 pounds per square foot.
 1. The addition of a mat is at the discretion of the synthetic turf grass manufacturer and shall not contribute to the combined weight or G-Max value.
 2. The addition of a mat must be approved by the Owner and Engineer.
- C. The infill materials shall be approved and supplied by the synthetic turf manufacturer.

- D. The composite material shall be comprised of an exclusive cork composite, or an approved equal composite infill material proven in the synthetic turf industry.
- E. System Qualifications:
 - 1. The infill system must meet the standards and testing criteria for synthetic turf fields and applied as such with at least 15 fields installed in the United States.
 - 2. The infill system must prove reliable by having been installed in synthetic turf fields for commercial use for a minimum of a complete 8-year life cycle.
 - 3. The use of the infill system must be proven by having been utilized in a minimum of 50 full sized synthetic turf fields worldwide with no incidence of failure or replacement.

2.03 FIELD GROOMER

- A. Provide one field grooming (sweeping) device for the maintenance of the synthetic turf grass system.
- B. Field groomer shall have adjustable tine rake & brush, consisting of four rows of spring tines ahead of a six-foot-wide stiff brush. Tines and brush are height adjustable to be utilized independently or in tandem.
- C. The field groomer shall include a towing mechanism compatible with a field utility vehicle, i.e. Taro Sand Pro, John Deere Gator, Club Car.
- D. The field groomer shall be approved by the synthetic turf grass manufacturer.
- E. The Synthetic Turf grass manufacturer shall train the Town's maintenance staff in the use of the field groomer.

2.04 SYNTHETIC TURF PERIMETER EDGE ATTACHMENT

- A. As required by the Synthetic Turf Grass manufacturer.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that area is ready to receive work, and excavation, dimensions, and elevations are as indicated on Construction plans.
- B. Beginning of installation means acceptance of existing conditions.
- C. It is the responsibility of the Contractor to verify the accuracy of all survey information provided by the Town prior to commencing excavations or filling operations. Commencement of these operations constitutes acceptance of the survey information as appropriate to meet the intent of the Contract.

3.02 PROTECTION OF WORK

- A. Make provisions for, and take the necessary precautions to protect existing and new work from damage during the entire life of the project.
- B. It is the responsibility of the Contractor to protect all work in progress from damage due to extremes of cold, moisture, or drying, or mechanical damage from equipment traffic or foot traffic and to alert the Town to the presence or likelihood of conditions that may adversely affect the quality of the work, the physical structure

of soils, or transport of site soils off-site.

- C. Protect soils from excessive moisture. During periods of prolonged precipitation, take aggressive steps to avoid over-saturation, erosion, or homogenization of soils by covering with protective plastic sheeting, collection and controlled dewatering, detention for sediment removal, and allowing excessively wetted soils to remain fallow until approved by the Town as appropriate for continued work.
- D. Apply supplemental moisture to overly dry soils.
- E. Do not operate heavy equipment near excavations where pipe, trench wall or cut-slope failure may result.

3.03 QUALITY ASSURANCE

- A. Laser fine grading is mandatory.
- B. The Contractor is responsible for verifying the quality of the work and shall perform compaction and density tests on request of the Town to check compliance with these specifications. A copy of the test reports shall be furnished to the Town.

3.04 PROJECT/SITE CONDITIONS

- A. Work of this section shall not be executed when site conditions are detrimental to quality of work as determined by the Town.

3.05 PREPARATION OF SUB-GRADE

- A. The general extent of the drainage and sub-grade construction work is shown on the Drawings and includes, but is not limited to, the following:
 - 1. The sub-grade must have a minimum slope of 0.5% from the longitudinal center of the field towards the sidelines.
 - 2. The sub-grade must be compacted in both directions to attain the specified compaction rate.
 - 3. The soil bed or sub-grade must be prepared to tolerances of not more than ½" from design grade to allow for even drainage.
 - 4. Laser fine grading is mandatory.
- B. Using laser operation survey instruments, the Contractor shall verify that subgrade has been prepared according to specification with regard to compaction, grade tolerances and is free of debris to beginning work.
- C. The field sub-grade shall be final graded to form a smooth, clean basin free of any debris and/or loose soil to the tolerances. The stone drainage base shall not be installed until all sub-grading and drainage are completed in order to avoid the mixing of other soil and materials with the drainage materials. Laser fine grading is mandatory.

3.06 SUB-GRADE VERIFICATION

- A. Upon installation of the sub-drainage system, the Contractor shall submit to the Town for review, a sub-grade conformance survey, performed by a licensed surveyor, before any placement of the drainage stone.

1. Elevations shall be taken on a 25-foot grid over the sub-grade of the entire playing field.
 2. Tolerance for Sub-Grade: Sub-grade shall be verified using laser-operation survey instruments. Laser fine grading is mandatory. Finish Grade must be within ½" of an inch plus or minus from the elevations shown on the construction plans. In addition, the sub-grade shall be measured so that no point within the 25-foot grid deviating more than .05 % from any other point within the 25-foot grid.
- B. After review, the conformance survey will be returned to Contractor with areas out of tolerance noted for connection. Contractor will be required to correct areas out of tolerance and certify that connections have been made prior to base drainage stone installation.

3.07 SUB-GRADE CERTIFICATION

- A. Prior to installation of collection pipes or field aggregate, the Contractor shall provide a certification from the Synthetic turf grass manufacturer that the sub-grade meets the compaction, planarity and permeability requirements.

3.08 INSTALLATION OF SYNTHETIC TURF PERIMETER EDGE

- A. Install synthetic turf perimeter edge attachment system in accordance with manufacturer's instructions and as approved by the Town.

3.09 PREPARATION OF FIELD BASE AGGREGATE (FINISH AND BASE DRAINAGE STONE)

- A. Prior to commencing the base aggregate, install the horizontal multifold pipes and geotextile to the satisfaction of the Town and the Engineer.
1. Care should be taken to keep machinery on the base stone without damaging the drainage pipe or fabric avoid twisting and turning on the stone base.
 2. Do not operate machinery directly on approved geotextile.
- B. The stone shall be washed at the quarry and damp when transported to site and shall be kept damp during installation, to minimize segregation of the materials.
- C. Base drainage stone throughout the field shall be carefully smoothed and compacted. The entire playing field surface shall then be checked for irregularities and adjusted to a uniform grade per the grading plans detailed on the construction plans, as follows:
1. Place approved Base Drainage Stone in a manner that will minimize disturbance to the subgrade geotextile installation. Use only approved transport methods for placement of materials.
 2. Thoroughly cover subgrade geotextile with sufficient Base Drainage Stone to evenly distribute compressive forces of placement operation in 6" maximum lifts.
 3. Grade the base stone base with a laser equipped grading rubber tire tractor with non-ag tires.
 4. Roll the base stone with a double drum non-vibratory roller to the satisfaction of the Engineer. The base stone must be laid and compacted

without damaging or disturbing the sub-grade, geotextile or multi flow drains.

5. Once the finishing stone is on grade utilize a water truck or large hoses to water the entire base very thoroughly to settle the base drainage interface.
 6. Then laser grade the finishing stone again and roll with Steel Double Drum Roller thoroughly in two directions.
- D. Place approved Finishing Stone in a manner that will minimize disturbance to the approved Base Drainage Stone installation. Use only approved transport methods for placement of materials.
1. Spread a single lift of Finishing Stone to the depth specified, allowing for compaction. Perform compaction with a static roller of sufficient weight to insure proper compaction to the satisfaction of the Engineer.
 2. The final lift of aggregate should not be more than 2 inches deep.
 3. Provide complete compaction to the lines, grades, and slopes indicated on the Construction plans.

3.10 FIELD BASE AGGREGATE VERIFICATION

- A. The Contractor shall submit to the Town for review, a field base aggregate verification survey,
1. Conformance Survey of Finish Stone: The Contractor shall perform a conformance survey by a licensed surveyor, before any placement of the synthetic turf, on a 25-foot grid over the finish stone of the entire playing field. Provide spot elevations, based on the established benchmark, on the Construction plans, at each grid intersection and at the intersection of the perimeter and the grid. Submit a drawing showing the results of the above survey. The drawing shall include the scaled grid, all spot elevations and show contours at $\frac{1}{4}$ " intervals of variation from the ideal planes. Interpolate spot elevations as required to provide contours.
 2. The Town will require three (3) working days to review survey. After review, the survey will be returned to Contractor with areas out of tolerance noted for correction. Contractor will be required to correct areas out of tolerance and certify that corrections have been made prior to turf installation.
 3. Tolerance for Finish Stone: Finish stone elevations shall be verified using laser-operation survey instruments. Finish Grade must be within $\frac{1}{4}$ " of an inch plus or minus from the elevations shown on the plans. In addition, the finish stone shall be measured so that no point within the 25-foot grid deviates more than $\frac{1}{2}$ " of an inch from any other point within the 25-foot grid.

3.11 FIELD BASE AGGREGATE CERTIFICATION

- A. Prior to installation of the synthetic turf, the Contractor shall provide a certification from the Synthetic turf grass manufacturer that the field base aggregate meets the compaction, planarity and permeability requirements.

3.12 SYNTHETIC TURF GRASS SYSTEM INSTALLATION

A. Pre-Installation Meeting

1. Convene one week before starting installation of the synthetic turf grass system.

B. General

1. Only trained technicians, skilled in the installation of athletic caliber synthetic turf grass systems, working under the direct supervision of the approved installer supervisors, shall undertake any cutting, sewing, gluing, shearing, topdressing or brushing operations.
2. The designated Supervisory personnel on the project must be certified, in writing by the Synthetic Turf Grass Manufacturer, as competent in the installation of this material, including sewing seams and proper installation of the Infill mixture.
3. All designs, markings, layouts, and materials shall conform to all currently applicable National Federation of High School Association rules and other domestic and international standards that may apply to this type of synthetic turf grass installation and as detailed on the construction plans.

C. Turf Grass Installation

1. Install shall be in accordance with Synthetic Turf Grass Manufacturer's instructions and the approved shop drawings. Any variance from these requirements must be accepted in writing, by the Synthetic Turf Grass Manufacturer's onsite representative, and submitted to the Town, verifying that the changes do not in any way affect the warranty. Infill materials shall be approved by the Synthetic turf grass manufacturer and installed in accordance with the Synthetic Turf Grass Manufacturer's standard procedures.
2. The carpet rolls are to be installed directly over the properly prepared aggregate base. Extreme care should be taken to avoid disturbing the aggregate base, both in regard to compaction and planarity.
3. The full width rolls shall be laid out across the field. Turf shall be of sufficient length to permit full cross-field installation from sideline to sideline. No head or cross seams will be allowed in the main playing area between the sidelines. Utilizing standard state of the art sewing procedures, each roll shall be sewed or glued properly to the next in accordance with the Manufacturer's specifications. When all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field turf. These rolls shall be glued or sewn as well.
4. For sewn installation, all seams shall be sewn using double bagger stitches and polyester thread or adhered using seaming tape and high grade adhesive (per the Synthetic Turf Grass Manufacturer's standard procedures). Seams shall be flat, tight, and permanent with no separation or fraying. For glued installation, adhesives shall be hot-melt or a one-part moisture cured polyurethane obtained from a single manufacturer and be

equivalent to Nordot 34-G as manufactured by Synthetic Surfaces of Scotch Plains, NJ or approved equal.

5. Prior to the application of any line painting, the turf shall be fibrillated by means of a nylon rotary brush to provide the look, feel, and safety of optimally maintained natural grass, including subtle undulations normally associated with natural grass athletic fields.
6. Non-tufted or inlaid lines and markings shall be painted according to the recommendations of the Synthetic turf grass manufacturer and of the paint manufacturer. Several applications may be required.
7. Synthetic turf shall be attached to the perimeter edge detail in accordance with the Synthetic Turf Grass Manufacturer's standard procedures.

D. Infill Installation

1. Heat Reducing Composite Infill
 - a. Infill materials shall be applied in numerous thin lifts. The turf shall be brushed as the mixture is applied.
 - b. The infill installation mixture shall be installed in accordance with, and to a depth determined by, the Synthetic Turf Grass Manufacturer.
 - c. Infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional.
 - d. Upon completion, free pile height shall be no more than $\frac{3}{4}$ inch and no less than $\frac{1}{2}$ inch.
 - e. The two, or three layered infill system shall be installed in a systematic order.

3.13 CLEANING

- A. Protect installed Synthetic turf from subsequent construction operations.
- B. Do not permit traffic over unprotected floor surface.
- C. Contractor shall provide the labor, supplies, and equipment as necessary for final cleaning of surfaces and installed items.
- D. All usable remnants of new material shall become the property of the Town.
- E. The Contractor shall keep the area clean throughout the project and clear of debris.
- F. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Town.

3.14 UNDERGROUND UTILITIES

- A. The Contractor's attention is directed to the possible presence of water, sewer, gas mains, electric wires, conduit, communication cables (both overhead and underground), poles and house service connections in the street or common areas in which the construction project is to be performed. The Contractor shall locate all existing utilities, both private and public, and be responsible for their safety.

- B. Should any existing utilities be damaged or destroyed due to the operations of the Contractor, the damages or destroyed components shall be immediately replaced or repaired as necessary to restore the utility to a satisfactory working condition.
- C. These repairs or replacements shall be at no additional expense to the Town or the utility owner. The contractor shall notify respective utility companies in accordance with State of Florida law regarding any work to be performed in the vicinity of existing lines, cables, or other utility features.

3.15 OWNER ACCEPTANCE

- A. Prior to Final Acceptance, the Contractor shall submit to the Town:
 - 1. Three (3) copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventative maintenance of the synthetic turf system including, but not limited to, turf, infill, drainage system, painting and markings.
 - a. Provide specific guidelines to address proper and adequate maintenance needed to maintain G-Max values below the maximum.
 - b. Provide specific guidelines for the operation and maintenance of the field groomer.
 - 2. Project Record Documents in accordance with Section 01720 – Record Documents, including, at a minimum the following:
 - a. All proposed elevations.
 - b. The locations of seams, drains or other pertinent information.
 - c. The dimensions and location of all field markings.
 - 3. Warranty: Submit Manufacturer Warranty and ensure that forms have been completed in Town's name and registered with Manufacturer.
 - 4. Certification: Submit certification signed by Contactor that installed materials conform to specified requirements and drainage system was successfully checked and tested prior to covering with drainage gravel.
 - 5. A certification from the synthetic turf grass manufacturer that the installation has been performed in accordance with manufactures recommendation and is suitable for play and the commencement of the warranty period.
 - 6. Certified initial G Max test results.

3.16 WARRANTIES

- A. The synthetic turf grass manufacturer and a third party (insurer) shall provide a warranty to the Town that covers defects in materials and workmanship of the synthetic turf grass system for a period of 8 years from the date of Owner Acceptance.
- B. The synthetic turf grass manufacturer's warranty shall include general wear and damage caused from UV degradation. The warranty shall specifically exclude vandalism, and acts of God beyond the control of the Town or the manufacturer.

- C. Warranty Insurance
1. The synthetic turf grass manufacturer's Warranty must be supported by a prepaid, non-cancelable insurance policy in the amount of the full, non-prorated, replacement value for the full eight (8) year period, or an 8-year Warranty Bond.
 2. The Surety shall have and maintain at least an "A" rating in A.M. Best Company's rating guide.
 3. Bidders shall submit a sample 8 - year insurance policy or Warranty Bond from the manufacturer of the synthetic turf grass system that they are proposing to install for this project at the time of bid.
- D. The Contractor shall provide a Warranty to the Town that covers defects in the installation workmanship, and further warrant that the installation was done in accordance with both the Manufacturer's recommendations and any written directives of the Manufacturer's onsite representative.
- E. Contractor shall be responsible for the testing of the G-Max levels:
1. At the installed synthetic turf at the completion of construction and
 2. At years two, four, six, and six months prior to the completion of year eight.
 3. If any of these tests do not fall within the G-Max range as specified, the Contractor will be required to modify the field composition to the sole satisfaction of the Town so that it falls within the target G-Max range.
 4. All costs associated with such work shall be borne solely by the Contractor.
 5. Any failed test shall be retested to verify that the field meets the specifications.
 6. All testing shall be paid by the Contractor.
 7. All testing shall be completed by an independent testing laboratory accredited for such tests, and shall be pre-approved by the Town.
 8. All testing and analysis of findings shall be completed by qualified persons utilizing the required techniques outlined in the ASTM standards.

END OF SECTION

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DOCUMENT 00300

BID FORMS

TOWN OF DAVIE

Bamford Park Artificial Turf Installation

BID NUMBER: B-17-99

SUBMITTED: _____
(Date)

This Bid is submitted to: Town Council, Davie, Florida.

1. The undersigned, as Bidder, hereby declares that he/she is acquainted with the site of the construction as shown on the drawings and specifications and has fully acquainted himself/herself with the work to be done; that he/she has thoroughly examined the drawings, Specifications and all Contract Documents pertaining thereto; and has read any and all addenda issued prior to the opening of Bids; all as designed under the Engineer's Bid Number **B-17-99**.
2. The Bidder proposes and agrees, if this Bid is accepted, to secure all required permits, furnish all necessary materials, tools, construction equipment, all necessary transportation and labor to complete the construction as shown, detailed and described in the Specifications and on the drawings.
3. It is understood by the Bidder that the quantities in the following quotation form are given for the purpose of the Bid comparison only.
4. It is understood by the Bidder that all Bid item amounts shall be submitted. In the event any item is not included, rejection of the Bid will be considered by the Owner.
5. It is understood that certain portions of the Bid section may be deleted from the awarded Contract at the Owner's discretion.
6. The Bidder acknowledges that, included in the various items of the Bid and in the total Bid price, are costs for complying with the Florida Trench Act of 1990.
7. The Bidder agrees that, if awarded the Contract, he/she will sign the Contract Documents within seven (7) calendar days of the Notice of Award; that he/she will commence the work on the date stated in the Notice to Proceed; and that he/she will have the work fully completed for Owner's use within **100 calendar days**. If not, liquidated damages will be assessed at the rate of one thousand dollars (\$1,000) per calendar day, Sundays and holidays included.
8. The Bidder is licensed as a Contractor to perform the work or services contemplated by this Bid and holds License No. _____ issued by _____, Florida.

BIDDER _____

ADDRESS _____

Addendum No. 3 (5/1/17)

Project 03/2017

Bamford Park Artificial Turf Installation

Document 00300

Page 1 of 22

96-1630.112



The Bidder further proposes that the following subcontracting firms or businesses will be awarded subcontracts for the following portions of the work in the event the Bidder is awarded the Contract:

1. _____
(Portion of Work)

(Name of Subcontractor) (Telephone #)

(Street) (City) (State) (Zip)

2. _____
(Portion of Work)

(Name of Subcontractor) (Telephone #)

(Street) (City) (State) (Zip)

3. _____
(Portion of Work)

(Name of Subcontractor) (Telephone #)

(Street) (City) (State) (Zip)

4. _____
(Portion of Work)

(Name of Subcontractor) (Telephone #)

(Street) (City) (State) (Zip)

5. _____
(Portion of Work)

(Name of Subcontractor) (Telephone #)

(Street) (City) (State) (Zip)

BIDDER _____

ADDRESS _____



(Sign below if Incorporated)

ATTEST:

(Name of Corporation)

(Secretary)

(Signature and Title)

(CORPORATE SEAL)

(Type Name and Title signed above)

Incorporated under the laws of the State of _____.



BID FORM:

IF BIDDER IS:

1. An Individual

By: _____ (SEAL)
(Individual's Name)

Doing business as: _____

Business Address: _____

Phone: _____

2. A Partnership

By: _____ (SEAL)
(Firm's Name)

_____ (General Partner)

Business Address: _____

Phone: _____

By: _____ (SEAL)
(Individual's Name)

3. A Corporation

By: _____ (Corporation Name)

_____ (State of Incorporation)

By: _____ (Name of Person Authorized to Sign)

_____ (Title)

Phone: _____ (Corporate Seal)

Attest: _____ (Secretary)

Business Address: _____

Phone: _____



4. A Joint Venture

By: _____
(Name)

(Address)

By: _____
(Name)

(Address)

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)



Bid Form
Bamford Park Artificial Turf Installation
Bid No. B-17-99

Bid Item	Description	Estimated Quantity	Unit	Unit Price	Total
I.	General				
1	Mobilization/Demobilization/SWPPP Not to exceed 5% of Total Bid	1	LS		
2	Clearing and Grubbing/Demolition	1	LS		
3	Testing and Survey	1	LS		
	Subtotal General				
II.	Paving				
4	Artificial Turf Installation including drainage system/subgrade/base/header curb	1	LS		
5	Tall Header Curb	660	LF		
6	Reconstruct Wooden Stairs	1	AL	\$1,500	
7	Gravity Wall with Field Wall Padding	121	LF		
8	6" Concrete sidewalk/concrete apron including stabilized subgrade (various width)	4,857	SY		
9	Demo existing concrete sidewalk	2,060	SY		
10	4' High Chain Link Fence	2,565	LF		
11	Aluminum Pedestrian Rail	94	LF		
12	Removable Bollard	3	EA		
13	Sod	1,520	SY		
14	Miscellaneous Appurtenances	2	EA		
15	Adjustments to Existing Irrigation Systems	1	AL	\$5,000	
	TOTAL BID PRICE				
III.	Administrative				



16	Town of Davie Engineering Permit (10% of Total Bid Price)	1	AL		
17	Town of Davie Building Permit (2% of Total Bid Price)	1	AL		
	Subtotal Fees				
	TOTAL BASE BID (Items I Thru III)				

(Total Base Bid Written)

The lowest Bid shall be determined by the Total Contract Amount

ALTERNATE ITEMS NOT TO BE INCLUDED IN BASE BID

Item #	Description	Estimated Quantity	Unit	Unit Price	Total
A1	Unsuitable Material Allowance (see note 1)	100	CY	_____	_____

Note:

1. Unsuitable Material shall be determined by the EOR or EOR's Field Representative and based on truck measure. Fill shall be compacted in place.

Bid Submitted by:

Name: _____ Date: _____

Company: _____

Address: _____

Phone: _____

Fax: _____

Email Address: _____

Signature: _____

Print Name: _____

Print Title: _____



Bid Form

Acknowledgement of Addenda

Bidding Contractor shall indicate receipt of addendum by initialing below for each addendum received.

Addendum #1 _____

Addendum #2 _____

Addendum #3 _____

Addendum #4 _____



CONTRACTOR AFFIDAVIT

General Contractor must acknowledge via letter of transmittal that they have reviewed the entire Contract Documents and will provide all "NAMED PRODUCTS" or approved substitutions per Document 00100, and in the event there is ambiguity or conflict relating to items or arrangements to be furnished under the Contract Documents, the Engineer will determine which takes precedence. It is understood that the Contractor shall furnish the items or arrangements of greater quantity, better quality, or higher cost as conclusively determined by the Engineer.

In addition, the General Contractor has reviewed this condition with all the Subcontractors and Suppliers.

General Contractor

Signature Title

Company Name



TOWN OF DAVIE

Bamford Park Artificial Turf Installation

QUALIFICATION REQUESTS

Contractor to list projects fulfilling the following qualification requests:

Contractor must list projects with similar project scope (i.e. addition of travel lanes, widening of sidewalk, installation of street lighting etc):

1. List Project Management Personnel, include resumes. Personnel cannot be changed without written approval.
 - * Principal in charge
 - * Project Manager
 - * Superintendent
2. List minimum of five (5) previous public Bid projects
List Owner's representative and phone number.

Omission of any of the above items in the Project List will disqualify Bid!



PROJECT LIST

Completed Construction Projects that satisfy qualification requirements:

<u>Project Name</u>	<u>Owner or Representative</u>	<u>Phone Number</u>	<u>Engineer</u>	<u>Contract Amount</u>	<u>Date Completed</u>
---------------------	--------------------------------	---------------------	-----------------	------------------------	-----------------------

1.	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____



Town of Davie Vendor/Bidder Disclosure

I, _____, being first duly sworn state that:
The full legal name and business address of the person(s) or entity contracting with the Town of Davie ("Town") are as follows (Post Office addresses are not acceptable):

Name of Individual, Firm, or Organization: _____

Address: _____

FEIN: _____

State and Date of Incorporation: _____

OWNERSHIP DISCLOSURE AFFIDAVIT

1. If the contract or business transaction is with a corporation, the full legal Name and Business address shall be provided for each officer and director and each stakeholder who directly or indirectly holds five percent (5%) or more of the corporation's stock. If the contract or business transaction is with a trust, the full name and address shall be provided for each trustee and each beneficiary. All such names and addresses are as follows: (Post Office addresses are not acceptable):

Full Legal Name	Address	Ownership
_____	_____	_____ %
_____	_____	_____ %
_____	_____	_____ %
_____	_____	_____ %



2. The full legal names and business addresses of any other individual (other than subcontractors, material men, suppliers, laborers, and lenders) who have, or will have, any legal, equitable, or beneficial interest in the contract or business transaction with the Town are as follows (Post Office addresses are not acceptable):

Full Legal Name	Address	Ownership
_____	_____	_____ %
_____	_____	_____ %
_____	_____	_____ %
_____	_____	_____ %

By: _____ Date: _____
Signature of Affiant

Print Name

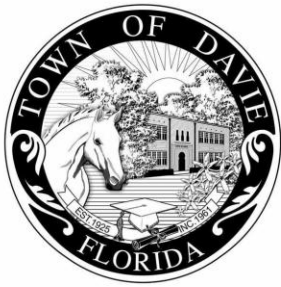
SUBSCRIBED AND SWORN TO or affirmed before me this _____ day of _____ 201_, by _____, he/she is personally known to me or has presented _____ as identification.

Notary Public, State of Florida at Large

Print or Stamp of Notary

Serial Number

My Commission Expires: _____



TOWN OF DAVIE POLICE DEPARTMENT
CODE COMPLIANCE DIVISION

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LOCAL VENDOR PREFERENCE

1. Definitions

Local Davie Vendor – A “Local Davie Vendor” shall mean a person or business entity which has maintained a permanent place of business with full-time employees within the Town limits for a minimum of six months prior to the date of issuance of a bid or proposal solicitation. The permanent place of business **may not** be a post office box or a residence. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Town of Davie and have an address that the U.S. Postal Service recognizes as being a Davie address to be eligible.

Local Broward County Vendor – A “Local Broward County Vendor” shall mean a person or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of six months prior to the date of issuance of a bid or proposal solicitation. The permanent place of business **may not** be a post office box or a residence. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides and have an address that the U.S. Postal Service recognizes as being a Broward County address to be eligible.

Bid – A “Bid” shall be any competitive solicitation by specification officially posted by the Town of Davie Purchasing staff on the Town’s website where the award is determined by price.

Proposal – A “Proposal” shall be any competitive solicitation by Request for Proposal (RFP) officially posted by the Town of Davie purchasing staff on the Town’s website where the award is determined by qualifications.

2. Process

a) Competitive Bid – For bid evaluation purposes, vendors that meet the definition of “Local Davie Vendor” as detailed above shall be given a 5% evaluation credit. This shall mean that if a “Local Davie Vendor” submits a bid/quote that is within 5% of the lowest price submitted by any vendor, the “Local Davie Vendor” shall have an option to submit another bid which is at least 1% lower than the lowest responsive bid/quote. If the “Local Davie Vendor” submits a bid which is at least 1% lower than that lowest responsive bid/quote, then the award will go to the “Local Davie Vendor”. If not, the award will be made to the vendor that submits the lowest responsive bid/quote. **If the lowest responsive and responsible bidder IS a “Local Davie Vendor”, the award will be made to that vendor and no other bidders will be given an opportunity to submit additional bids as described herein.**



For bid evaluation purposes, vendors that meet the definition of “Local Broward County Vendor” as detailed above shall be given a 2.5% evaluation credit. This shall mean that if a “Local Broward County Vendor” submits a bid/quote that is within 2.5% of the lowest price submitted by any vendor, the “Local Broward County Vendor” shall have an option to submit another bid which is at least 1% lower than the lowest responsive bid/quote. If the “Local Broward County Vendor” submits a bid which is at least 1% lower than that lowest responsive bid/quote, then the award will go to the “Local Broward County Vendor”. If not, the award will be made to the vendor that submits the lowest responsive bid/quote. **If the lowest responsive and responsible bidder IS a “Local Davie Vendor”, the award will be made to that vendor and no other bidders will be given an opportunity to submit additional bids as described herein.**

If there is a “Local Davie Vendor” and a “Local Broward County Vendor” participating in the same bid solicitation and both vendors qualify to submit a second bid as detailed above, the “Local Davie Vendor” will be given first option. If the “Local Davie Vendor” cannot beat the lowest bid received by at least 1%, an opportunity will be given to the “Local Broward County Vendor”. If the “Local Broward County Vendor” cannot beat the lowest bid by at least 1%, then the bid will be awarded to the lowest bidder regardless of geographic location of the business.

If multiple “Local Davie Vendors” submit bids/quotes which are within 5% of the lowest bid/quote, then all vendors will be asked to submit a “Best and Final Offer” (BAFO). The award will be made to the “Local Davie Vendor” submitting the lowest BAFO providing that that BAFO is at least 1% lower than the lowest bid/quote received in the original solicitation. If no “Local Davie Vendor” can beat the lowest bid/quote by at least 1%, then the process will be repeated with all “Local Broward County Vendors” who have submitted a bid/quote which is within 2.5% of the lowest bid/quote. If no “Local Davie Vendor” and no “Local Broward County Vendor” can submit a BAFO that is at least 1% lower than the lowest bid/quote submitted in the original solicitation, the award will be made to the lowest responsive bidder regardless of geographic location of the business.

b) Competitive Proposal- For evaluation purposes, “Local Davie Vendor” and “Local Broward County Vendor” shall be a criterion for award in any Request For Proposal unless specifically exempted by the Town Administrator or the Town Council.

c) Exceptions

1. No “local vendor” preference will be included in any competitive solicitation where the Town is the lead agency for the Southeast Florida Cooperative Purchasing Group.
2. Utilization of a State or other agency contract.
3. State or Federal law prohibits the use of local preference.
4. The work is funded in whole or in part by a governmental entity where the laws, rules, regulations or policies prohibit the use of local preferences.
5. Sole source or single source purchases.
6. The “local vendor” is either non-responsive or non-responsible.
7. All bids submitted exceed the budget amount for the project.
8. Emergency purchases.
9. The Town Administrator and/or the Town Council may exempt any competitive solicitation from the local vendor preference.



Town of Davie Local Vendor Preference

Affidavit of Eligibility

Complete all areas below. Incomplete forms may be rejected.

_____ My business is located within the Town of Davie.

LEGAL NAME OF FIRM: _____

Physical address:

Phone number _____ Fax number _____

Email address _____

Has the business name changed since it was opened in Davie? Yes _____ No _____

If Yes please provide the previous business name: _____

Taxpayer Identification Number: _____

Date your business was established in Town of Davie: _____

Business license: License number: _____ Date issued: _____

_____ A copy of my Business Tax Receipt is attached.

I employ _____ (insert a number) full time employees.

If your business is a Broward County business but not located within the Town of Davie please fill out the information on the next page.



Town of Davie Local Vendor Preference Broward County Vendor

Affidavit of Eligibility

Complete all areas below. Incomplete forms may be rejected.

_____ My business is located within Broward County but not in the Town of Davie.

LEGAL NAME OF FIRM: _____

Physical address: _____

Phone number _____ Fax number _____

Email address _____

Has the business name changed since it was opened in Broward County? Yes ___ No ___

If Yes, please provide the previous business name: _____

Taxpayer Identification Number: _____

Date your business was established in Broward County: _____

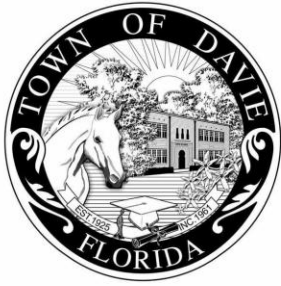
Business license: License number: _____ Date issued: _____

_____ A copy of my Business Tax Receipt is attached.

I employ _____ (insert a number) full time employees.

The undersigned states that the forgoing statements are true and correct. The undersigned also acknowledges that any person, firm, corporation or entity intentionally submitting false information to the Town in an attempt to qualify for local preference shall be prohibited from bidding on Town of Davie products and services for a period of one (1) year.

Authorized Signature: _____ Date: _____



Printed Name & Title:

TOWN OF DAVIE POLICE DEPARTMENT
CODE COMPLIANCE DIVISION

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**SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS
COLLECTION AND DISPOSAL REQUIREMENTS
FOR BIDDING JOBS IN THE TOWN OF DAVIE**

The Town of Davie has an Exclusive Solid Waste Franchise Agreement with Waste Management Inc. of Florida for the Collection and Disposal of all Solid Waste including Construction and Demolition (C&D) debris as defined within Florida Statutes Chapter 403. All applicants for bids to perform construction work for the Town of Davie shall be subject to the requirements found in the Town's exclusive solid waste franchise agreement and must contract with Waste Management for the collection and disposal of all construction and demolition debris generated at such construction job sites.

For the current applicable rates and fees for Waste Management dumpsters, roll-off containers, and other related solid waste service equipment needs, please contact Kay Hurley, Waste Management's Construction Services Account Manager, at (954) 439-4067 or khurley@wm.com.

For further information related to bid specifications related to solid waste franchise requirements, please contact Brian K. O'Connor, Procurement Manager, at (954) 797-1016.

For solid waste franchise enforcement questions, please contact the Town of Davie Program Division's representative at 954-797-1045 or Danny Stallone, Code Compliance Official, at (954) 693-8237.

PLEASE BE ADVISED THAT THE FAILURE OF ANY BIDDER FOR A CONSTRUCTION PROJECT FOR THE TOWN OF DAVIE, INCLUDING AND NOT LIMITED TO GENERAL CONTRACTORS AND DEVELOPERS, TO ADHERE TO THE REQUIREMENTS OF THE TOWN'S EXCLUSIVE SOLID WASTE FRANCHISE AGREEMENT SHALL RESULT IN A NOTICE OF VIOLATION, CITATION OR SIMILAR CODE ENFORCEMENT ACTION BEING TAKEN AGAINST THEM. ENFORCEMENT ACTION MAY INCLUDE DENIAL OR REVOCATION OF A BID APPLICATION AND ITS APPROVAL. THE ENFORCEMENT ACTION WILL RESULT IN FINES AND LIENS UP TO \$15,000/DAY FOR IRREPARABLE VIOLATIONS, UP TO \$1000/DAY FOR FIRST VIOLATIONS, UP TO \$5000/DAY FOR REPEAT VIOLATIONS PLUS APPLICABLE COST RECOVERY AND ATTORNEY FEES.



TOWN OF DAVIE POLICE DEPARTMENT
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BID SUBMITTAL COMPLETION CONFIRMATION for ITB's:

- _____ I, the Bidder, have completed and signed (in blue ink) all required bid document pages.
- _____ I, the Bidder, have submitted my bid on the bid sheets provided, and acknowledge that bids not submitted on bid sheets provided may be rejected.
- _____ I, the Bidder, have filled in all spaces on the pricing page as noted, and acknowledged that bids with spaces left blank on the pricing page may be rejected.
- _____ I, the bidder, have included all information, certificates, licenses, and additional documentation as required by the Town in this bid document.
- _____ I, the Bidder, have checked for any addendums to this bid, and will continue to check for any addendums up to the due date and time of this bid.
- _____ I, the Bidder, have included on the face of the envelope, my company name and return address, the date and time of the bid opening, and the bid name and number.
- _____ I, the Bidder, have submitted one (1) original and two (2) copies of the entire bid document and addendums.
- _____ I, the Bidder, have read and completed the Vendor/Bidder Disclosure Form.
- _____ I, the Bidder, have read and completed the W-9 Form.
- _____ I, the Bidder, am aware that a Notice of Intent to Award this bid shall be posted on the Town's website at www.davie-fl.gov and on the Town Hall bulletin board in the front lobby at Town Hall, and that it is my responsibility to check for this posting.
- _____ I, the Bidder, have submitted all supporting documentation for local preference eligibility, which must be received with the bid package prior to the bid opening date and time.
- _____ I, the Bidder, have completed this checklist and it is included with my submittal.

NAME OF COMPANY: _____

BIDDER'S NAME: _____

BIDDER'S AUTHORIZED SIGNATURE: _____

DATE: _____

Addendum No. 3 (5/1/17)

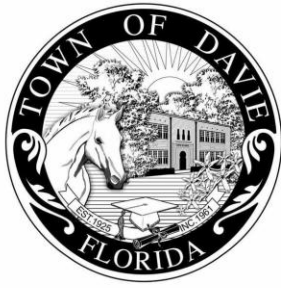
Project 03/2017

Bamford Park Artificial Turf Installation

Document 00300

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96-1630.112



Bid Protest Procedure

If a vendor feels that they have been treated unfairly concerning the results of a solicitation, or the resulting recommendation for award, they may protest the Town's action as follows:

1. The vendor must submit a letter to the Procurement Manager detailing the nature of the protest accompanied by two (2) cashier's checks within three (3) working days of the Notice of Intent to Award. The first check will be in the amount of \$500 (hereinafter called "the administrative fee"). The second check will be in the amount of 1% of the bid amount (hereinafter called "the protest bond"). The Town's Notices of Intent to Award are posted on the Town of Davie website.
2. If the Procurement Manager receives a bid protest letter, the administrative fee, and the protest bond as described above, the bid award process will be suspended and the protest will be referred to the Bid Protest Committee. However, if the project is needed to protect the health, safety, and/or welfare of the residents of the Town of Davie, the award of the project will proceed without interruption. The Bid Protest Committee shall consist of three (3) Town of Davie staff member selected by the Town Administrator. The Procurement Manager and the employee that wrote the Recommendation for Award may not sit as a member of the Bid Protest Committee. However, the Procurement Manager and the staff member that wrote the Recommendation for Award shall be present at the hearing of the Bid Protest Committee to answer any questions pertaining to the bid process or the evaluation process.
3. The Bid Protest Committee shall schedule a hearing within ten (10) working days from receipt of the protest letter. All parties having an interest in the outcome will be notified of the date and time of the hearing. If the bid protest is denied, the vendor will forfeit the protest bond. If the protest is upheld, the protest bond will be returned to the vendor. The administrative fee shall be non-refundable in all cases.
4. If the Bid Protest Committee denies the protest, the aggrieved vendor may appeal his/her case to the Davie Town Council. In order to appeal, the vendor must notify the Town Administrator within three (3) working days of the Bid Protest Committee's ruling. Upon notification, the Town Administrator will schedule the appeal as an agenda item on the next available Town Council agenda. All bidders will be notified of the agenda date.
5. Once the bid protest is resolved, the Town will proceed with the bid award, except as exempted in 2, above.

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification (required): <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶ _____	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	
	List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)									
Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3. Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Social security number</td> </tr> <tr> <td style="text-align: center;">[] [] [] - [] [] - [] [] [] []</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">Employer identification number</td> </tr> <tr> <td style="text-align: center;">[] [] - [] [] [] [] [] [] [] [] [] []</td> <td></td> </tr> </table>	Social security number		[] [] [] - [] [] - [] [] [] []		Employer identification number		[] [] - [] [] [] [] [] [] [] [] [] []	
Social security number									
[] [] [] - [] [] - [] [] [] []									
Employer identification number									
[] [] - [] [] [] [] [] [] [] [] [] []									

Part II Certification			
Under penalties of perjury, I certify that:			
1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and 2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and 3. I am a U.S. citizen or other U.S. person (defined below).			
Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.			
Sign Here	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Signature of U.S. person ▶</td> <td style="width: 20%;">Date ▶</td> </tr> </table>	Signature of U.S. person ▶	Date ▶
Signature of U.S. person ▶	Date ▶		

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

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SECTION 01012
MEASUREMENT AND PAYMENT
UNIT PRICE BID

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section includes administrative and procedural requirements for determining payment for Work completed and ready for payment under the Unit Price Contract where the Unit Price Bid Form is utilized in the Applications for Payment.

1.02 RELATED SECTIONS

- A. Section 00300 – Bid Form
- B. Section 01370 – Schedule of Values
- C. Other Sections as applicable.

1.03 REFERENCES

- A. Manual of Uniform Traffic Control Devices (MUTCD)
- B. FDOT Standard Specification for Road and Bridge Construction (Standard Specifications)
- C. FDOT Design Standards for Design, Construction, Maintenance and Utility Operations in the State Highway System (Standard Indexes)
- D. Broward County Public Works and Transportation Department, Highway Construction and Engineering Division Minimum Standards

1.04 GENERAL REQUIREMENTS

- A. Prices shall include all costs required for the completed, in-place construction of the specified unit of work. This may include but not be limited to, materials and delivery; cost of installation; incidentals; labor including social security, insurance, and other required fringe benefits; workman's compensation insurance; bond premiums; rental of equipment and machinery; taxes; testing; surveys; incidental expenses; and supervision.
- B. Installation, acceptance, and payment shall be in accordance with the REFERENCES.
- C. The Owner reserves the right to reject the Contractor's measurement of completed work that involves use of established unit prices, and to have this work measured by an independent surveyor acceptable to the Contractor at the Owner's expense.

- D. Contract Sum adjustments will be by Change Order on basis of net accumulative change for each unit price category.
 - 1. Except as otherwise specified, unit prices shall apply to both deductive and additive variations of quantities.
 - 2. Lump sum and unit prices in the Agreement shall remain in effect until date of final completion of the entire Work.
- E. Partial payment for material and equipment properly stored and protected will be made in accordance with requirements of the General Conditions.
- F. Abbreviations:
 - 1. Acre - AC
 - 2. Allowance - AL
 - 3. Cubic Yard - CY
 - 4. Each - EA
 - 5. Furnish and Install - F & I
 - 6. Gallons - GA
 - 7. Gross Mile - GM
 - 8. Linear Feet - LF
 - 9. Lump Sum - LS
 - 10. Million Gallons - MG
 - 11. Net Mile - NM
 - 12. Square Foot - SF
 - 13. Square Yard - SY
 - 14. Ton - TN

1.05 MEASUREMENT AND PAYMENT

- A. Payment shall constitute full compensation and will be made as indicated in the General Conditions.
- B. The quantity approved for payment shall be either:
 - 1. Percentage of the Lump Sum Price - A percentage of the Lump Sum Price equivalent to the percentage of the project completion as determined by the Engineer as of the date of the pay request submitted. The percent completion of the project shall be based on the percent of the total project actually constructed and not on the percent of the Contract price completed.
 - 2. Measured Quantities - The actual quantities in-place and accepted as measured by the Engineer on the date of the pay request submitted in the units specified in the bid form or schedule of values.

1.06 PROTECTION

- A. Where pavement, pipes, valves, appurtenances, trees, shrubbery, fences, other property or structures are in proximity to the WORK, adequate protection shall be provided. Such protection is considered incidental to construction and shall not be assigned to any pay item.

1.07 RESTORATION

- A. Where pavement, pipes, valves, structures, appurtenances, trees, shrubbery, fences, other property or structures not designated as pay items, have been damaged, removed or disturbed by the Contractor, whether deliberately or through failure to carry out the requirements of the Contract Documents, state laws, municipal ordinances or the specific direction of the Engineer, or through failure to employ usual and reasonable safeguards, such property and surface structures shall be replaced or repaired at the expense of the Contractor to a condition equal to that before work began within a time frame approved by the Engineer. Such restoration is considered incidental to construction and shall not be assigned to any pay item.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.01 MOBILIZATION/DEMobilIZATION/SWPPP - BID ITEM NO. 1

- A. Payment shall be made as a percentage of the Lump Sum Price.
- B. The Lump Sum Price shall include compensation for all labor, materials, equipment and all other incidentals required for all temporary facilities, transportation, communications, office, maintenance, project signs, and any other pre- or post-construction expenses necessary for the start or cessation of the Work, not specifically identified in the costs of the work.
- C. The lump sum price shall exclude the cost of construction material and installation.
- D. No further payment shall be made for remobilization unless all of the work is suspended by the Engineer for a period in excess of three months and through no fault to the Contractor.
- E. The lump sum price shall not exceed five percent (5%) of the contract price.

3.02 CLEARING AND GRUBBING/DEMOLITION - BID ITEM NO. 2

- A. Payment for this item shall be made on a Lump Sum Basis. The Contractor's unit price shall include full compensation for all Clearing and Grubbing/Demolition, removal of existing goal posts, fence and posts, bollards, existing irrigation system within the fields and other improvements located with the proposed artificial playing fields as shown on the plans as necessary within the Project site, and any other required removal, clearing and grubbing/demolition, except for any areas designated to be paid for separately or to be specifically included in the costs of other work

under the Contract.

- B. The Contractor shall remove and legally dispose of all bushes, trees, stumps, roots, and other such protruding objects, structures, existing irrigation system within fields, appurtenances, sign assemblies and any other facilities to prepare the area within the Project Site for construction of the proposed improvements.

3.03 TESTING AND SURVEY - BID ITEM NO. 3

- A. Payment shall be made based as a percentage of the Lump Sum Price.
- B. The Lump Sum Price shall include full compensation to perform all calculations and field work required, in order to establish all horizontal and vertical controls, set all stakes needed, such as grade stakes, offset stakes, reference point stakes, slopes stakes, and other reference marks or points necessary to provide lines and grades for construction and as-builting of all site improvements and miscellaneous items. Payment for this item also shall include all field testing and laboratory work including reports as required by the plans and specifications.

3.04 ARTIFICIAL FIELDS INCLUDING ARTIFICIAL TURF CARPET, DRAINAGE SYSTEM, SUBGRADE, BASE AND HEADER CURB - BID ITEM NO. 4

- A. Payment for artificial fields including artificial turf carpet, drainage system on and off the field, subgrade, subbase and header curb shall be on a lump sum basis installed and accepted.
- B. The cost shall include full compensation for all labor, equipment and material as necessary to excavate the existing subgrade and install a complete and functioning artificial turf system, including, but not limited to infill, drainage system, base, subgrade, recycled plastic 2"x4", nails and field markings, and header curb as indicated on the plans and specifications.
- C. The cost shall include full compensation for all labor, equipment and material as necessary to install, prepare and compact the subgrade beneath the artificial turf system, as indicated on the plans.
- D. The cost shall include full compensation for all labor, equipment and material as necessary to install a complete and functioning drainage system, including geotextile fabric, 7.5" layer of #57 base stone, 1.5" layer #89 finishing stone, pollutant retardant baffles, collector pipes, transport pipes, appurtenances, installed drainage structures within the field and out of the field, all installed drainage pipes in the field and out of the field, removal and replacement of pipe in same location, and connections to existing and/or proposed drainage system/structures as indicated on the plans. The cost shall include hauling the pipe to the new location as necessary and any cleaning that might be required. When the drainage or utility pipe is removed and the new pipe is constructed in approximately the same location, the cost of excavating and removing the old pipe and of its disposal will be included.
- E. The cost shall include full compensation for all labor, materials, hardware, in-fill material, artificial turf, field markings, rock base, subgrade or any other items required to install the artificial turf in accordance with the Contract Documents.

- F. Any drainage pipe, drainage structure and/or artificial turf that is damaged incidental to construction shall be replaced at the Contractor's expense.

3.05 TALL HEADER CURB – BID ITEM NO. 5

- A. Payment for Tall Header Curb shall be based on the Contractor's unit price per linear foot installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to install the Tall Header Curb in accordance with the Contract Documents.
- C. Any Tall Header Curb that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.06 RECONSTRUCT WOODEN STAIRS – BID ITEM NO. 6

- A. Payment for reconstructing wooden stairs shall be based on the Contractor's actual amount of construction cost installed and accepted. For the purpose of the bid, an allowance of \$1,500 is to be used.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to reconstruct wooden stairs in accordance with the Contract Documents.
- C. Any portion of the wooden stairs that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.07 GRAVITY WALL WITH FIELD WALL PADDING – BID ITEM NO. 7

- A. Payment for Gravity Wall with field wall padding shall be based on the Contractor's unit price per linear foot installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to install the Gravity Wall with field wall padding in accordance with the Contract Documents.
- C. Any Gravity Wall with field wall padding that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.08 CONCRETE SIDEWALK/CONCRETE APRON INCLUDING STABILIZED SUBGRADE (VARIOUS WIDTHS) – BID ITEM NO. 8

- A. Payment for Concrete Sidewalks/concrete apron including stabilized subgrade shall be based on the Contractor's unit price per square yard installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to install the Concrete Sidewalk/concrete apron in accordance with the Contract Documents.
- C. The cost shall include the sidewalk/concrete apron including stabilized subgrade.

- D. Any Concrete Sidewalk/concrete apron that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.09 DEMOLISH EXISTING CONCRETE SIDEWALK - BID ITEM NO. 9

- A. Payment for Demolish Existing concrete sidewalk as indicated on the plans shall be made at the Contractor's unit price per square yard of concrete sidewalk demolished and legally disposed of. The Contract Unit Price shall include compensation for all labor, sawcutting at limits of removal, material, and equipment required to Demolish Existing concrete sidewalk in accordance with the plans and specifications.
- B. Payment shall be made for Concrete sidewalk demolished by authorization of the Consultant. Any demolition not shown on the plans or approved by the Consultant shall be replaced at the Contractor's expense.

3.10 4' HIGH CHAIN LINK FENCE AND GATE – BID ITEM NO. 10

- A. Payment for Chain Link Fence shall be based on the Contractor's unit price per linear foot installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment, design, permit and materials required to install the Chain Link Fence, including posts, footers, mesh and all associated appurtenances in accordance with the Contract Documents. Size and spacing of posts and footers to be identified on contractor's shop drawings.
- C. Any Chain Link Fence that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.11 ALUMINUM PEDESTRIAN RAIL – BID ITEM NO. 11

- A. Payment for Aluminum Pedestrian Rail shall be based on the Contractor's unit price per linear foot installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to install the Aluminum Pedestrian Rail in accordance with the Contract Documents.
- C. Any Aluminum Pedestrian Rail that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.12 REMOVABLE BOLLARD – BID ITEM NO. 12

- A. Payment for Removable Bollards shall be made based on the Contractor's unit price per each installed and accepted.
- B. The cost shall include compensation for all labor, material, hardware, caulking, gaskets, grout, brick, concrete, equipment or any other items required to install the Removable Bollards in accordance with the Contract Documents.
- C. Any damage to any Removable Bollards shall be repaired at the Contractor's expense.

3.13 SOD – BID ITEM NO. 13

- A. Payment for Sod shall be based on the Contractor's unit price per square yard installed and accepted.
- B. The cost shall include full compensation for all supervision, labor, equipment and materials required to install the Sod in accordance with the Contract Documents including fine grading, raking, rock removal and disposal, all labor, equipment and materials, fertilizer, watering truck or temporary water and watering for the period specified.
- C. Any Landscaping that is damaged incidental to construction or defective shall be replaced at the Contractor's expense.

3.14 MISCELLANEOUS APPURTENANCES – BID ITEM NO. 14

- A. Payment for miscellaneous appurtenances shall be made at the Contractor's Unit Price per each football goal post installed and accepted including foundation.
- B. The cost shall include compensation for all labor, material, and equipment as necessary to furnish and install the football goal posts in accordance with the Contract Documents.
- C. Any damage to any of the football goal posts or foundation shall be repaired at the Contractor's expense.

3.14 ADJUSTMENTS TO EXISTING IRRIGATION – BID ITEM NO. 15

- A. The Contractor's Price shall include compensation for all labor, material, and equipment required to repair damaged or retrofit to the existing irrigation system to a fully functional system. The Contractor shall cut and cap the existing lines at the perimeter of the improvements and provide a fully functioning system outside of the proposed Artificial Fields and sidewalks by installing irrigation sprinkler heads.
- B. Payment for the adjustments to the existing irrigation system shall be at the actual construction cost. For the purpose of the bid, an allowance of \$5,000 is to be used.

3.16 TOWN OF DAVIE ENGINEERING PERMIT FEE (10% OF BID AMOUNT) – BID ITEM NO. 16

- A. Payment for Town of Davie Engineering Permit Fee (10% of Bid Amount) shall be made at the actual amount of the permit fee as established by the Town at the time of Permit Application. For the purposes of the bid, an allowance of 10% of the Bid Amount is to be used. This 10% of the Bid total will exceed the permit fee and only the actual amount of the fee will be paid both by the Contractor to the Town.

3.16 TOWN OF DAVIE BUILDING PERMIT (2% OF BID AMOUNT) – BID ITEM NO. 17

- A. Payment for Town of Davie Building Permit Fee (2% of Bid Amount) shall be made at the actual amount of the permit fee as established by the Town at the time of Permit Application. For the purposes of the bid, an allowance of 2% of the Bid Amount is to

be used. This 2% of the Bid total will exceed the permit fee and only the actual amount of the fee will be paid both by the Contractor to the Town.

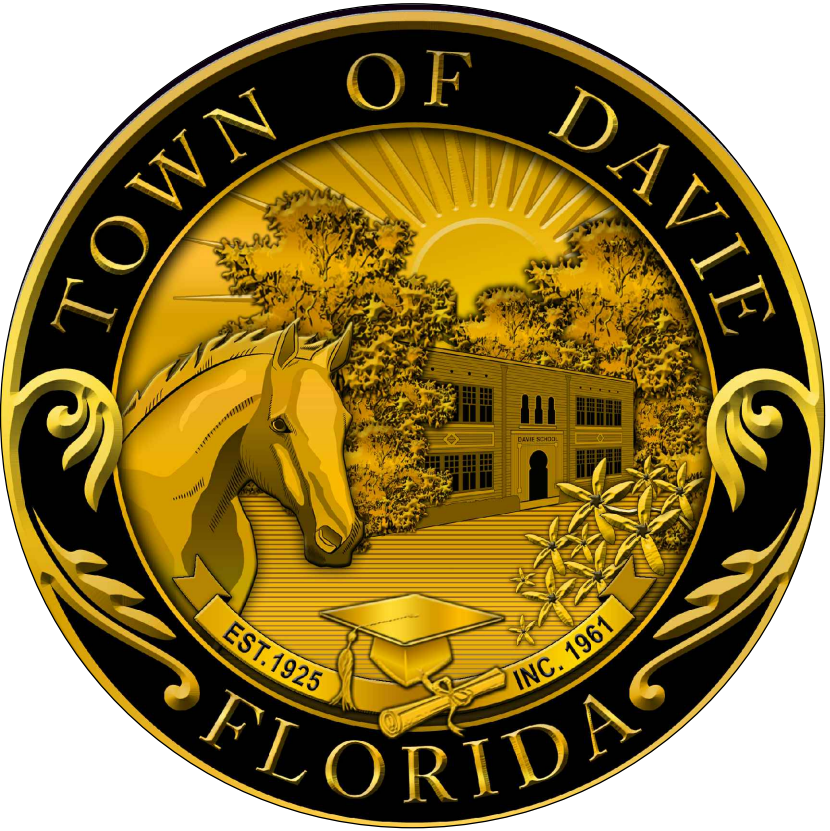
3.17 UNSUITABLE MATERIAL ALLOWANCE – ALTERNATIVE BID ITEM NO. A1

- A. Payment for this item shall be made at the Contractor's Unit Price per cubic yard of muck and/or soils containing arsenic excavated. The Contractor's unit price shall include full compensation for all supervision, labor, equipment, and materials required to complete the work in accordance with the plans and specifications. This unit pricing includes, Muck and/or soils containing arsenic Excavation Allowance including cost of legal disposal of all deleterious material and Trench Safety Compliance.

END OF SECTION

BAMFORD PARK ARTIFICIAL TURF INSTALLATION

DAVIE, FLORIDA

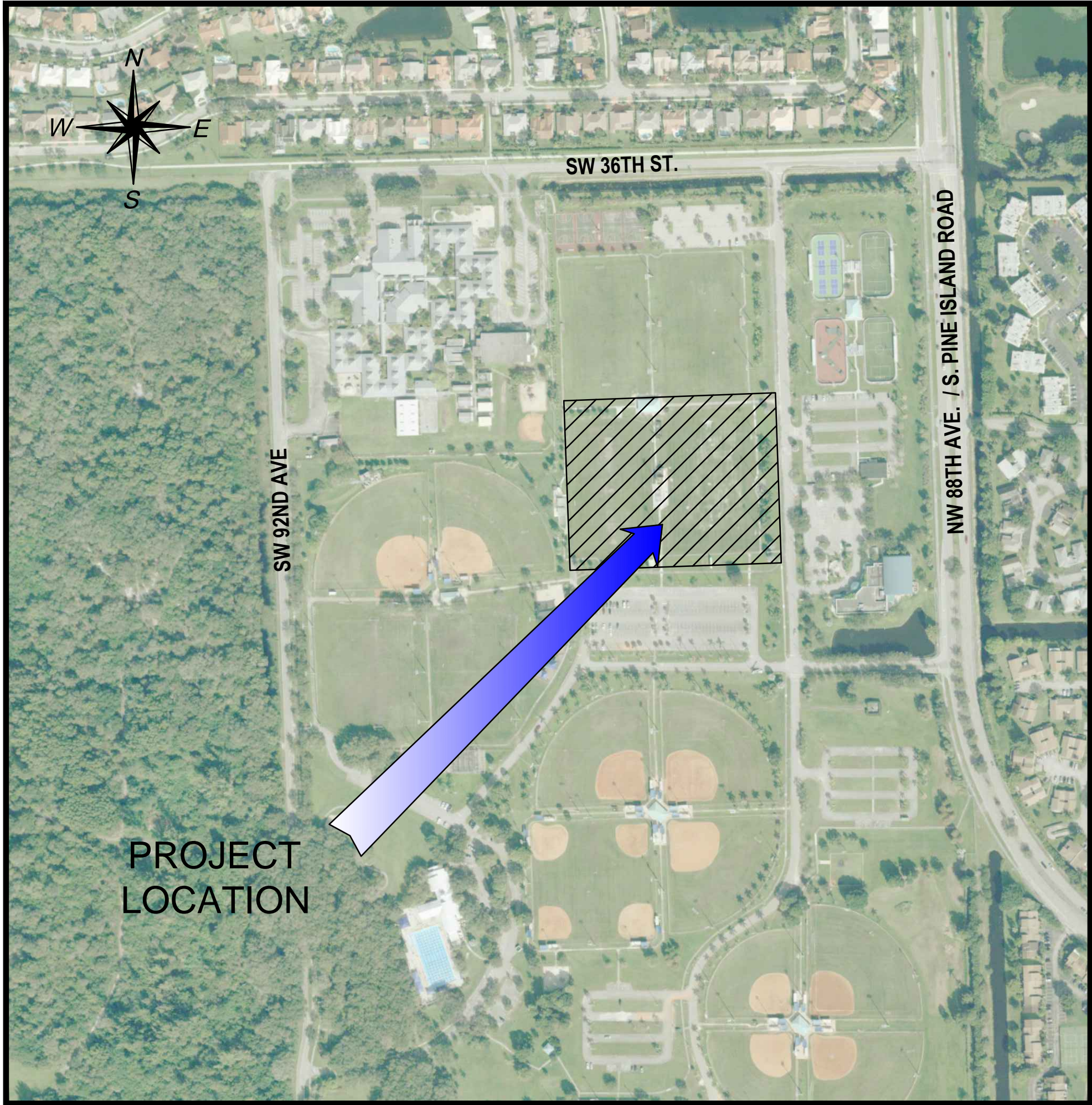


PROJECT No: 96-1630.112

File Name: P:\Projects\1996\961630.112 Bamford Park Artificial Turf Installation\CADD Files\Drawings\961630.112-C-COVR.dwg - (Plotted by: Nicholas Mahon on Friday, April 28, 2017 11:49:08 AM)

SHEET LIST TABLE

Sheet Number	Sheet Title
C1	COVER
C2	LEGENDS AND ABBREVIATIONS
D1	DEMOLITION PLAN
PD1	SITE LAYOUT PLAN
PD2	GRADING AND DRAINAGE PLAN
PD3	DETAIL SHEET
PD4	DETAIL SHEET
PD5	DETAIL SHEET
PD6	GENERAL NOTES
PD7	STORMWATER POLLUTION PREVENTION PLAN
PD8	STORMWATER POLLUTION PREVENTION NOTES
PD9	FOOTBALL AND SOCCER STRIPING PLAN
PD10	SOCCER STRIPING PLAN
PD11	LACROSSE STRIPING PLAN



LOCATION MAP

Scale: 1" = 300'

TOWN OFFICIALS

MAYOR:	JUDY PAUL
VICE MAYOR:	MARLON LUIS
COUNCIL MEMBERS:	BRYAN CALETKA
	CARYL HATTAN
	SUSAN STARKEY
TOWN ADMINISTRATOR	RICHARD J. LEMACK

NOTES:

- RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
- AN ELECTRONIC CAD FILE WILL BE PROVIDED FOR SURVEY LAYOUT.

BENCHMARK:

BENCH MARK NUMBER: 3485
 SECTION-TOWNSHIP-RANGE: 29-50-41
 ELEVATION: 5.69 NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)
 DESCRIPTION: SQUARE CUT SOUTH END OF CONCRETE CATCH BASIN- 1' EAST OF EAST EDGE OF PAVEMENT, SW 88th AVENUE 229'± SOUTH OF CENTERLINE SW 38th COURT. BM FOUND 6-20-2000 FOUND GOOD 12-04-2006



Calvin, Giordano & Associates, Inc.
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 Phone: 954.921.7781 • Fax: 954.921.8807
 Certificate of Authorization 514

PERMITTING AGENCIES	DATE SUBMITTED	CGA INITIALS	DATE APPROVED	PERMIT NUMBER
TOWN OF DAVIE ENGINEERING DIVISION (BY CONTRACTOR)	-	-	-	-
CENTRAL BROWARD WATER CONTROL DISTRICT	11/30/2016	-	11/30/2016	-
SOUTH FLORIDA WATER MANAGEMENT DISTRICT (MODIFICATION)	12/08/2016	-	01/09/2017	06-03077-P

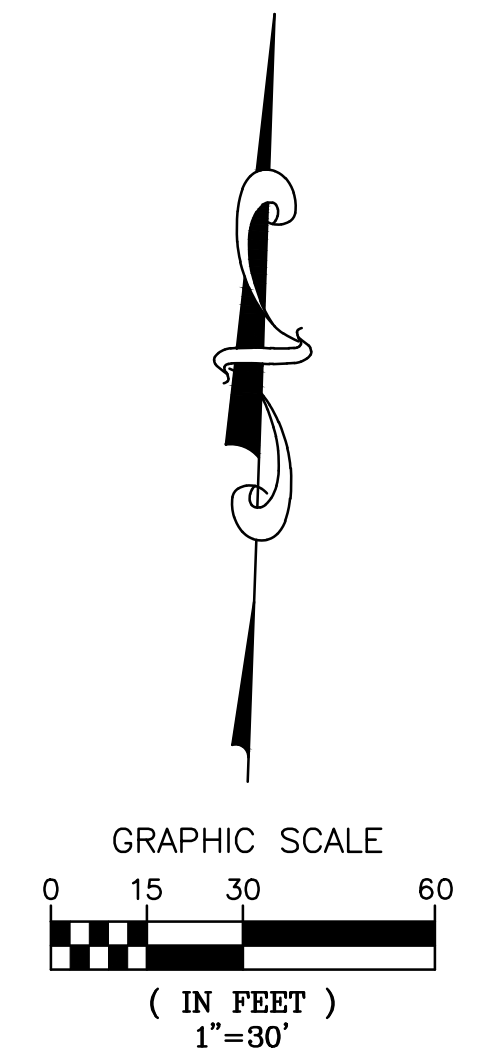
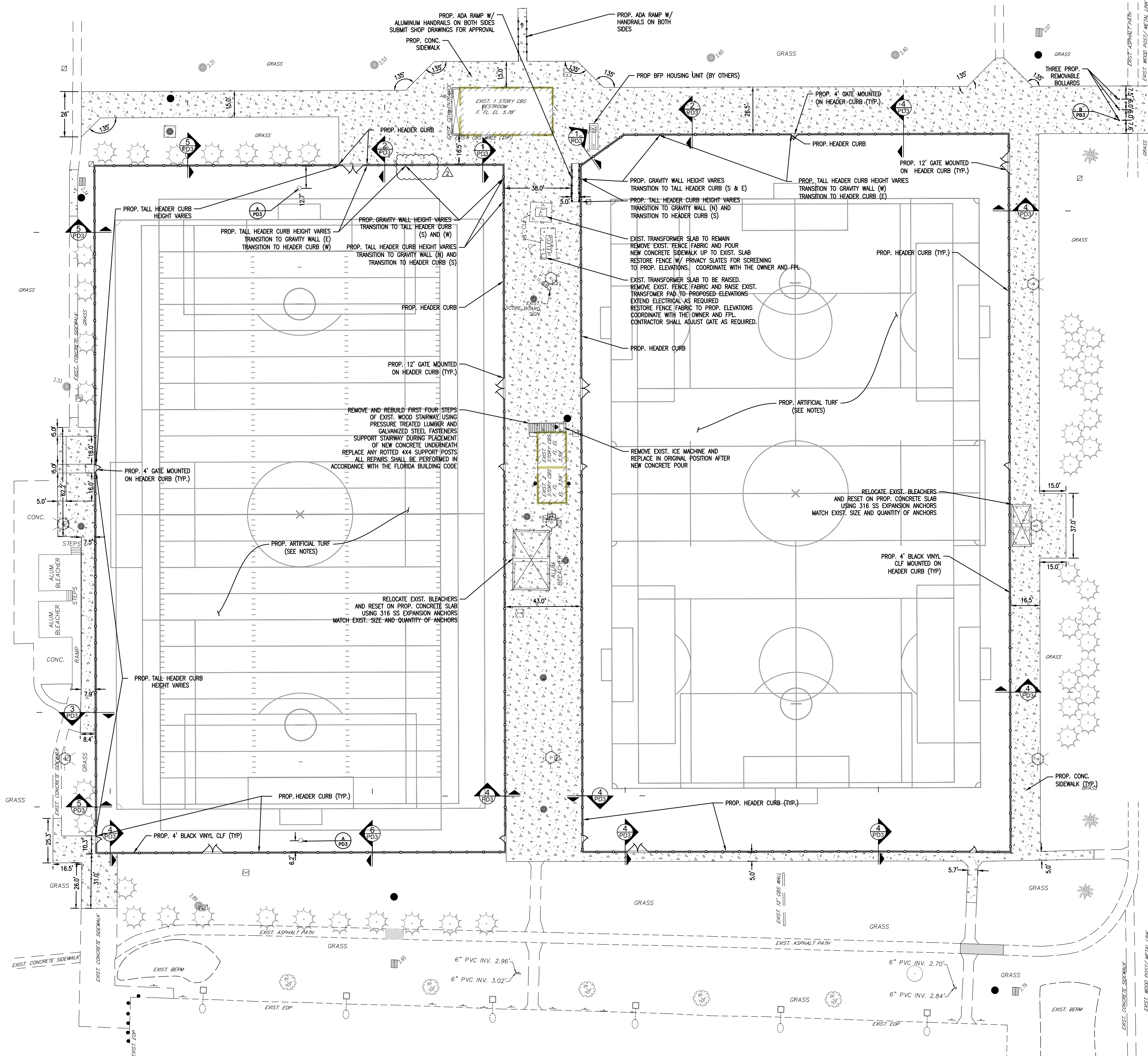
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
1	5/1/17	ADDENDUM NO. 3 (PD1, PD2, PD3)	N.B.M.				
2	4/20/17	REVISION TO STONE DEPTH - ADD NO. 2 (PD4)	N.B.M.				

FOR BIDDING PURPOSES ONLY
 ELEVATIONS SHOWN ARE NAVD 88



CURRENT REV No.: 2 - 05/01/2017	NICHOLAS B. MAHON, P.E. STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE No. 78361	SHEET: C1
	DATE: 03/29/17	

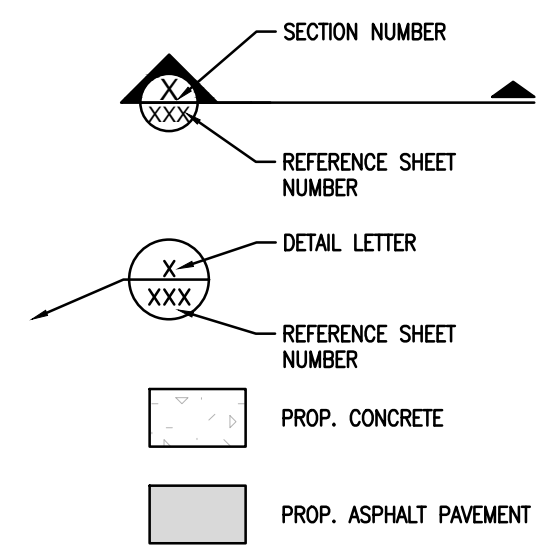
File Name: P:\Projects\1996\961630.Dave General Engineering Services\961630.112 Bamford Park Artificial Turf Installation\CADD Files\Drawings\961630.112-SF-PLAN.dwg (Plotted by: Nicholas Mahon on Friday, April 28, 2017 11:05:01 AM)



NOTES

1. THIS PLAN SHOWS ALL FIELD MARKINGS. REFER TO SHEETS PD9, PD10, AND PD11 FOR MORE INFORMATION. REFER TO SHEET PD3 FOR SECTIONS.
2. CONTRACTOR SHALL INSTALL ARTIFICIAL TURF WITHIN FENCED AREA. REFER TO SHEET PD2 FOR MORE INFORMATION.
3. CONTRACTOR SHALL REINSTALL FENCE FABRIC WITH PRIVACY SLATES FOR SCREENING AROUND THE FPL TRANSFORMER EQUIPMENT AREA. COORDINATE WITH OWNER ON COLOR AND TYPE OF SCREENING.

LEGEND



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
5/1/17		ADDENDUM NO. 3					

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BAMFORD PARK ARTIFICIAL TURF INSTALLATION
 DAVIE, FLORIDA

SITE LAYOUT PLAN

FOR BIDDING PURPOSES ONLY
 ELEVATIONS SHOWN ARE NAVD 88

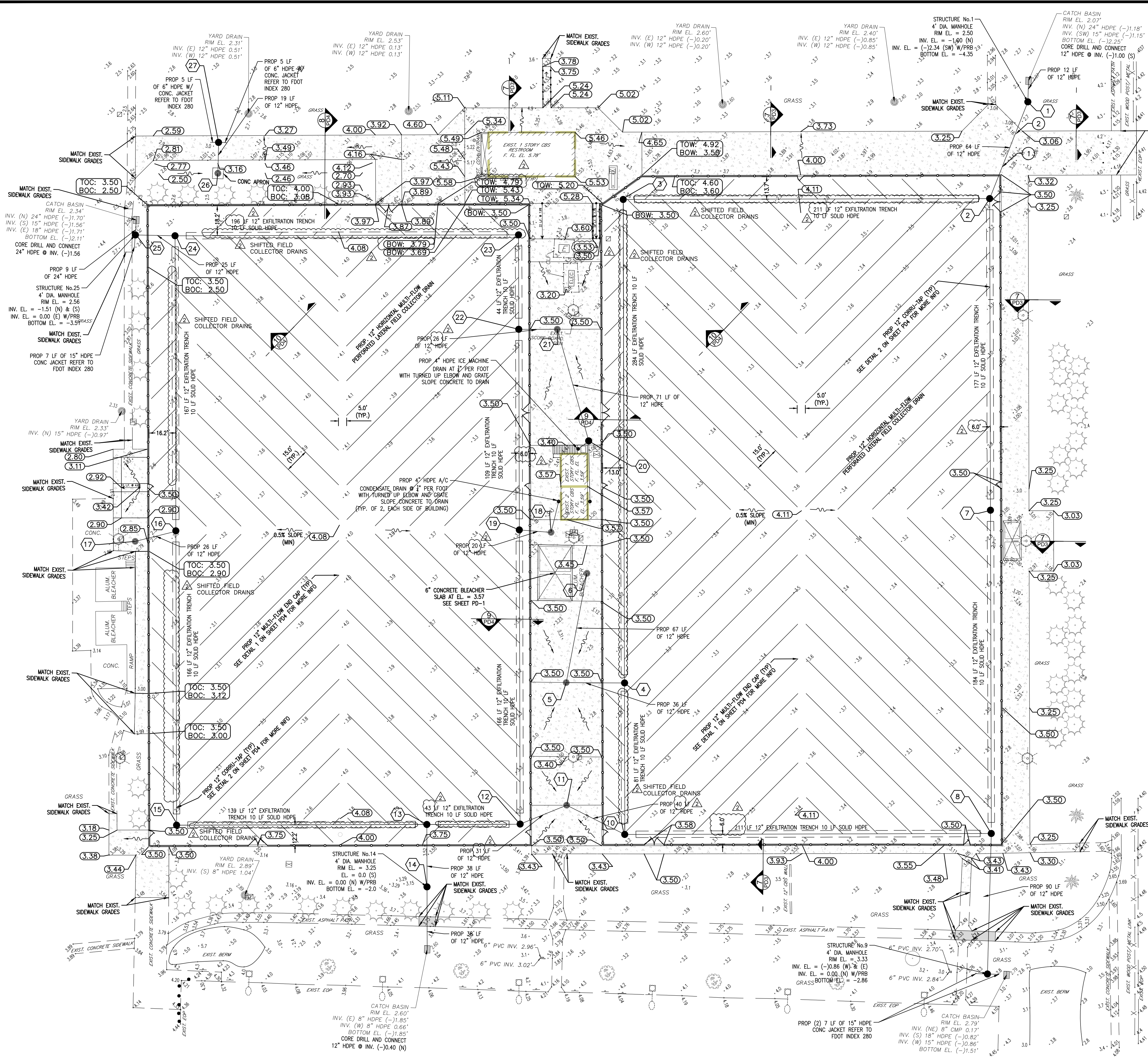
NICHOLAS B. MAHON, P.E.
 STATE OF FLORIDA PROFESSIONAL ENGINEER
 LICENSE No. 78361
 DATE: 01/17/17

SCALE
 AS SHOWN
 PROJECT No
 96-1630.112

SHEET
PD1



File Name: P:\Projects\1996\961630.Dave General Engineering Services\961630.112 Bamford Park Artificial Turf Installation\CADD Files\Drawings\961630.112-PD-PLAN.dwg (Plotted by: Nicholas Mahon on Friday, April 28, 2017 11:48:08 AM)

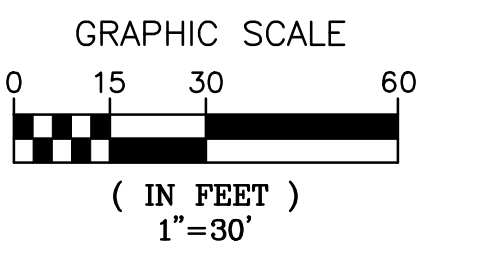


CONFLICT TABLE	
No.	DESCRIPTION
①	SOFT DUG EX. 3" PVC & 6" UNK B.O.P. = (+) 0.72 OVER PROP. 12" HDPE STORM T.O.P. = (-) 1.25 SEPARATION = 1.97'
②	SOFT DUG EX. 3" PVC & 6" UNK B.O.P. = (-) 0.25 OVER PROP. 12" HDPE STORM T.O.P. = (-) 1.25 SEPARATION = 1.00'

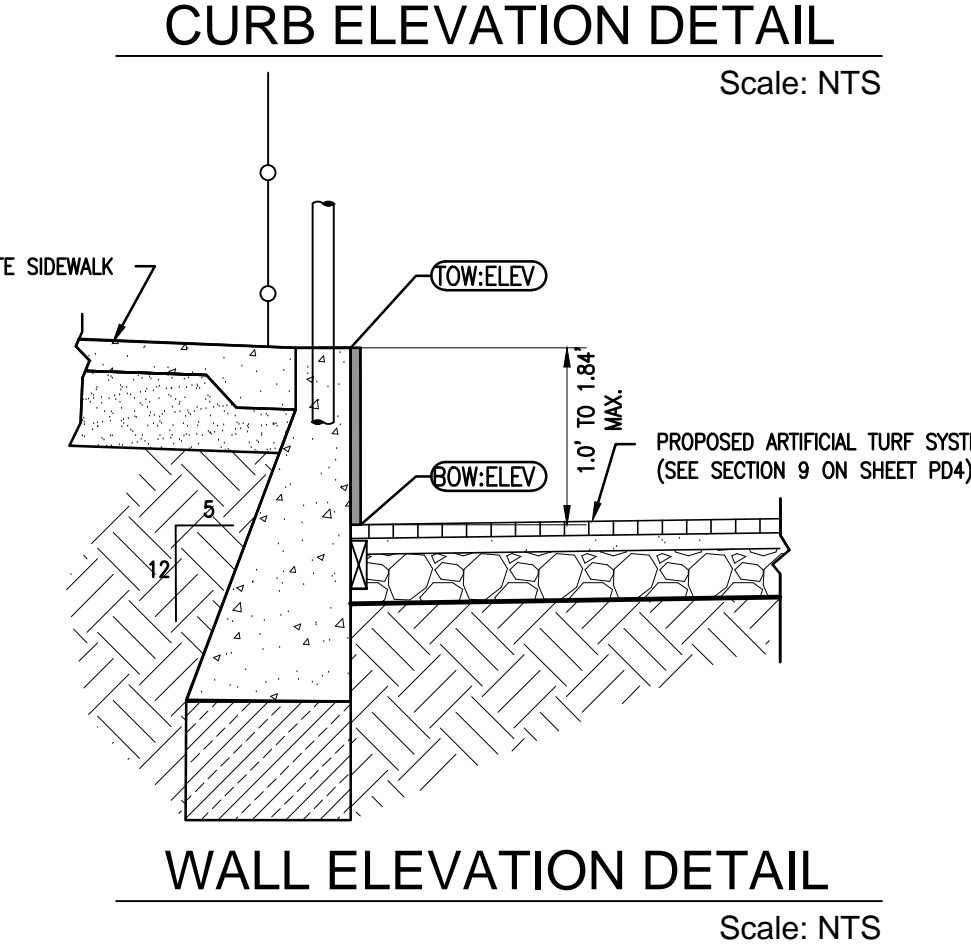
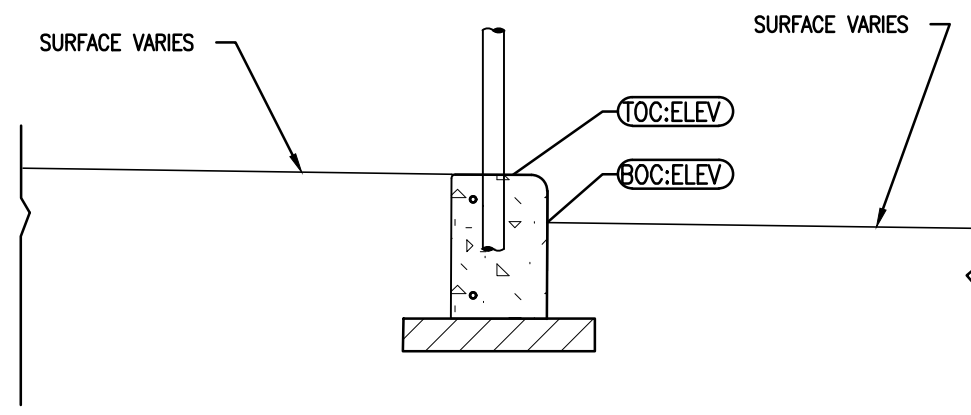
DRAINAGE STRUCTURE NOTE
1. CONCRETE APRON IS NOT REQUIRED WHEN CATCH BASIN IS INSTALLED ON A CONCRETE SURFACE OR WITHIN THE ARTIFICIAL TURF FILED.

ARTIFICIAL TURF - STONE COMPACTION PROCEDURE

- SEE SECTION 02863-9 OF TECHNICAL SPECIFICATIONS FOR DETAILS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF TECHNICAL SPECIFICATIONS.
- AFTER THE HORIZONTAL MULTIFLOW PIPE IS INSTALLED, THE FREE DRAINING BASE STONE AGGREGATE (FDOT SIZE #57) IS TO BE CAREFULLY INSTALLED. THE STONE SHOULD BE SPREAD WITH AN LGP DOZER, RUBBER TRACKED LOADER OR EQUIVALENT MACHINERY.
- CARE SHOULD BE TAKEN TO KEEP THE MACHINE ON THE BASE STONE WITHOUT DAMAGING THE DRAINAGE PIPE OR GEOTEXTILE FABRIC, AVOID TWISTING AND TURNING ON THE STONE BASE.
- GRADE THE BASE STONE WITH A LASER EQUIPPED GRADING RUBBER TIRE TRACTOR WITH (NON AG) TIRES.
- ROLL THE BASE STONE WITH A DOUBLE DRUM, NON-VIBRATORY ROLLER.
- SIMILARLY INSTALL THE FREE DRAINING FINISHING STONE AGGREGATE (FDOT SIZE #89) AS ABOVE AND SECTION 02863-9.
- ONCE THE FINISHING STONE IS ON GRADE, UTILIZE A WATER TRUCK OR LARGE HOSES TO WATER THE ENTIRE BASE VERY THOROUGHLY TO SETTLE THE BASE DRAINAGE INTERFACE.
- THEN LASER GRADE THE FINISHING STONE AGAIN AND ROLL WITH STEEL DOUBLE DRUM ROLLER THOROUGHLY IN TWO DIRECTIONS.



DRAINAGE STRUCTURES									
NO.	FINISH GRADE	RIM EL.	INV. EL.	INV. EL.	INV. EL.	BOT. EL.	REMARKS		
1	2.50	2.50	0.00(N)	0.00(S)	-2.34(SW)	-4.34	MANHOLE (US FOUNDRY 420-C)		
2	3.57	3.40	0.00(W)	0.00(S)	-2.34(NE)	-4.34	24" SOLID COVER W/ TURF ON TOP		
3	3.57	3.40	0.00(S)	0.00(E)	-2.00	-2.00	24" SOLID COVER W/ TURF ON TOP		
4	3.57	3.40	0.00(N)	0.00(S)	0.00(W)	-2.00	24" SOLID COVER W/ TURF ON TOP		
5	3.20	3.20	0.00(E)	0.00(NE)	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE & INTERNAL HOOD		
6	3.37	3.37	0.00(S)	0.00(S)	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE		
7	3.57	3.40	0.00(N)	0.00(S)	-2.00	-2.00	24" SOLID COVER W/ TURF ON TOP		
8	3.57	3.40	0.00(N)	0.00(S)	0.00(SE)	-2.00	24" SOLID COVER W/ TURF ON TOP		
9	3.33	3.33	0.00(N)	-0.86(W)	-0.86(W)	-2.86	MANHOLE (US FOUNDRY 420-C)		
10	3.57	3.40	0.00(NW)	0.00(N)	0.00(E)	-2.00	24" SOLID COVER W/ TURF ON TOP		
11	3.20	3.10	0.00(SE)	0.00(SW)	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE & INTERNAL HOOD		
12	3.57	3.20	0.00(NE)	0.00(W)	0.00(N)	-2.00	24" SOLID COVER W/ TURF ON TOP		
13	3.79	3.62	0.00(N)	0.00(W)	0.00(S)	-2.00	24" SOLID COVER W/ TURF ON TOP		
14	3.25	3.25	0.00(N)	0.00(S)	-2.00	-2.00	MANHOLE (US FOUNDRY 420-C)		
15	3.58	3.41	0.00(N)	0.00(E)	-2.00	-2.00	24" SOLID COVER W/ TURF ON TOP		
16	3.58	3.41	0.00(SW)	0.00(S)	0.00(N)	-2.00	24" SOLID COVER W/ TURF ON TOP		
17	2.77	2.77	0.00(N)	-2.00	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE & INTERNAL HOOD		
18	3.38	3.38	0.00(N)	0.00(W)	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE		
19	3.57	3.40	0.00(N)	0.00(E)	0.00(S)	-2.00	24" SOLID COVER W/ TURF ON TOP		
20	3.47	3.47	0.00(N)	1.00(SW)	0.00(S)	-2.00	24" SOLID COVER		
21	3.10	3.10	0.00(W)	0.00(SE)	-2.00	-2.00	24" DRAIN BASIN W/ADA GRATE & INTERNAL HOOD		
22	3.57	3.40	0.00(W)	0.00(S)	0.00(E)	-2.00	24" SOLID COVER W/ TURF ON TOP		
23	3.57	3.40	0.00(W)	0.00(S)	-2.00	-2.00	24" SOLID COVER W/ TURF ON TOP		
24	3.58	3.41	0.00(W)	0.00(S)	0.00(E)	-2.00	24" SOLID COVER W/ TURF ON TOP		
25	2.56	2.56	-1.51(N)	-1.51(S)	0.00(E)	-3.51	MANHOLE (US FOUNDRY 420-C)		
26	2.35	2.35	0.00(N)	-2.00	-2.00	-2.00	24" DRAIN BASIN		
27	3.06	3.06	0.79(E)	0.79(S)	0.79(W)	-1.21	24" DRAIN BASIN W/ SOLID COVER		



- LEGEND**
- PROP. CONCRETE
 - DRAIN SYSTEM
 - PROP. ASPHALT PAVEMENT
 - DRAIN BASIN NUMBER
- SECTION NUMBER**
XXX
- REFERENCE SHEET NUMBER**
XXX
- DETAIL NUMBER**
XXX
- REFERENCE SHEET NUMBER**
XXX
- TOC: 3.50
BOC: 3.00
TOP OF CURB: ELEV
BOTTOM OF CURB: ELEV
 - TOW: 3.50
BOW: 3.00
TOP OF WALL: ELEV
BOTTOM OF WALL: ELEV
 - 3.50
SPOT ELEV

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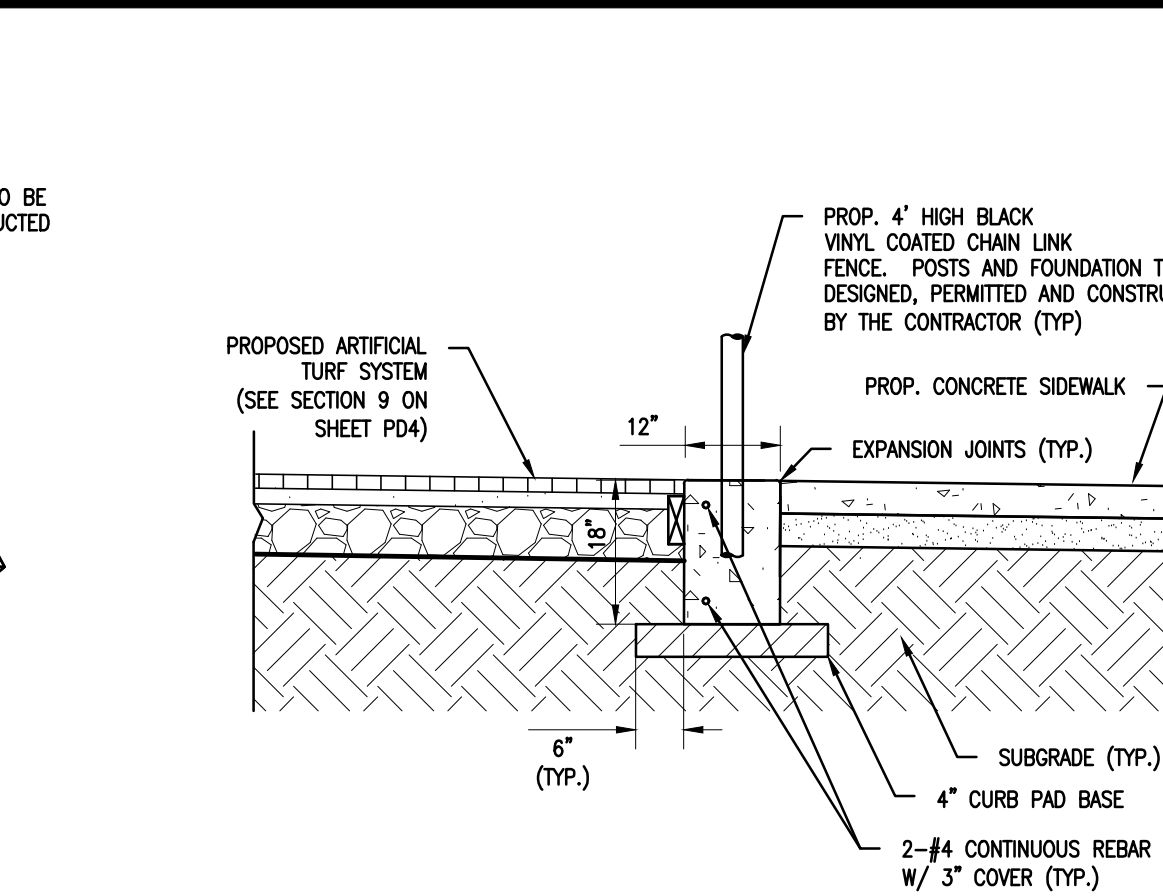
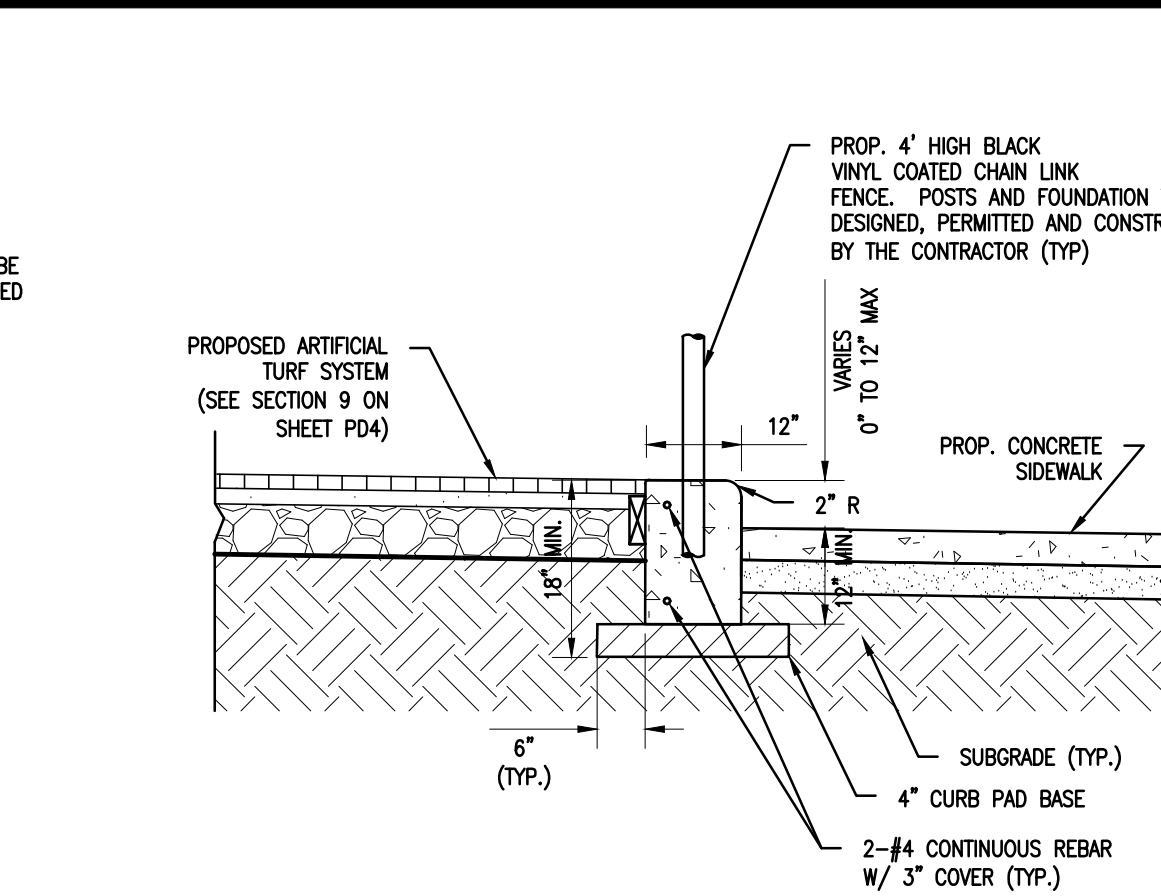
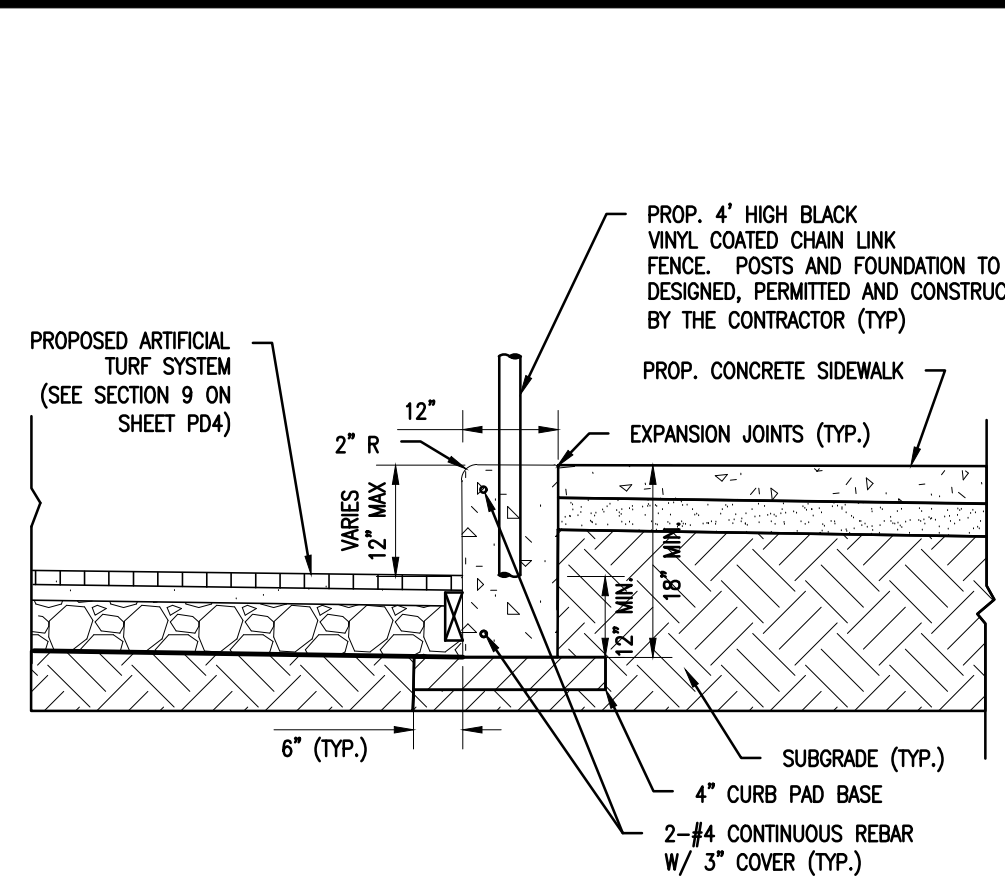
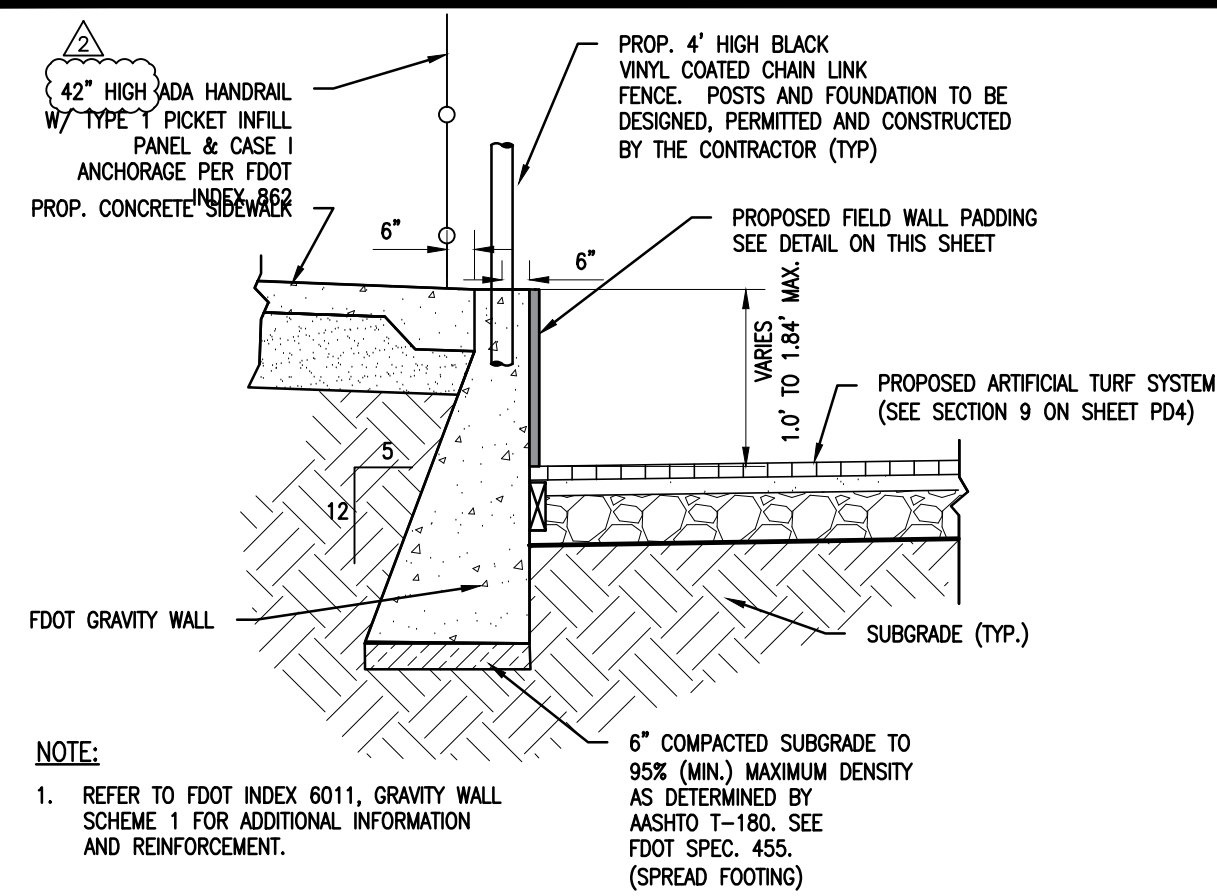
BAMFORD PARK ARTIFICIAL TURF INSTALLATION
DAVIE, FLORIDA

GRADING AND DRAINAGE PLAN

NICHOLAS B. MAHON, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78361
DATE: 01/17/17

SCALE	SHEET
AS SHOWN	PD2
PROJECT No	
96-1630.112	

File Name: P:\Projects\1996\961630.112 Bamford Park Artificial Turf Installation\CADD Files\Drawings\961630.112-C-DTL5.dwg (Plotted by: Nicholas Mahon on Friday, April 28, 2017 11:06:57 AM)

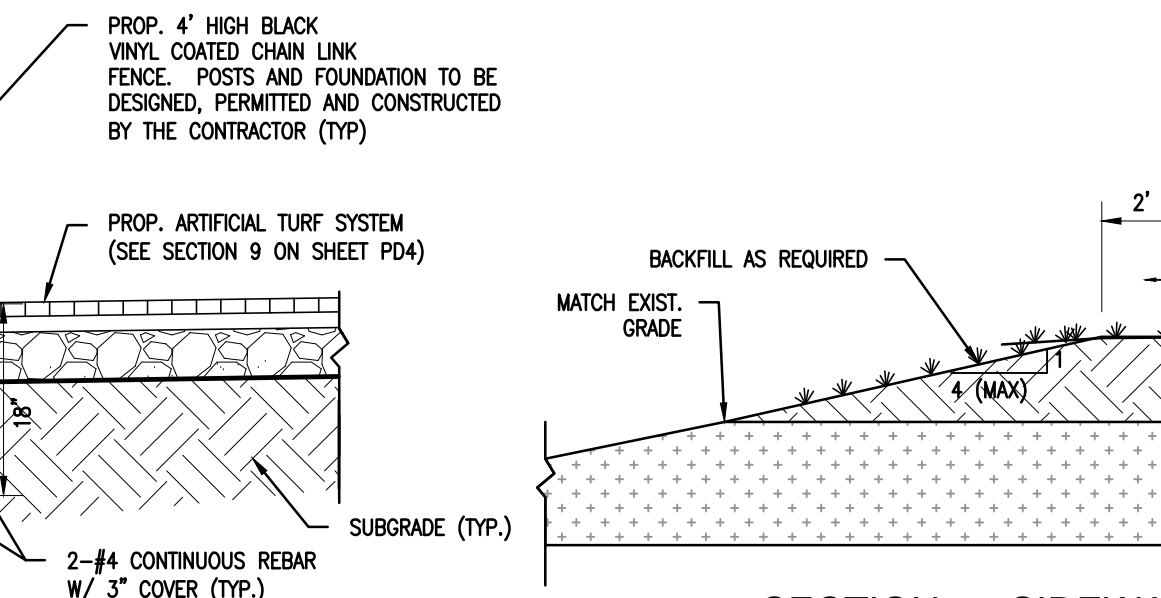
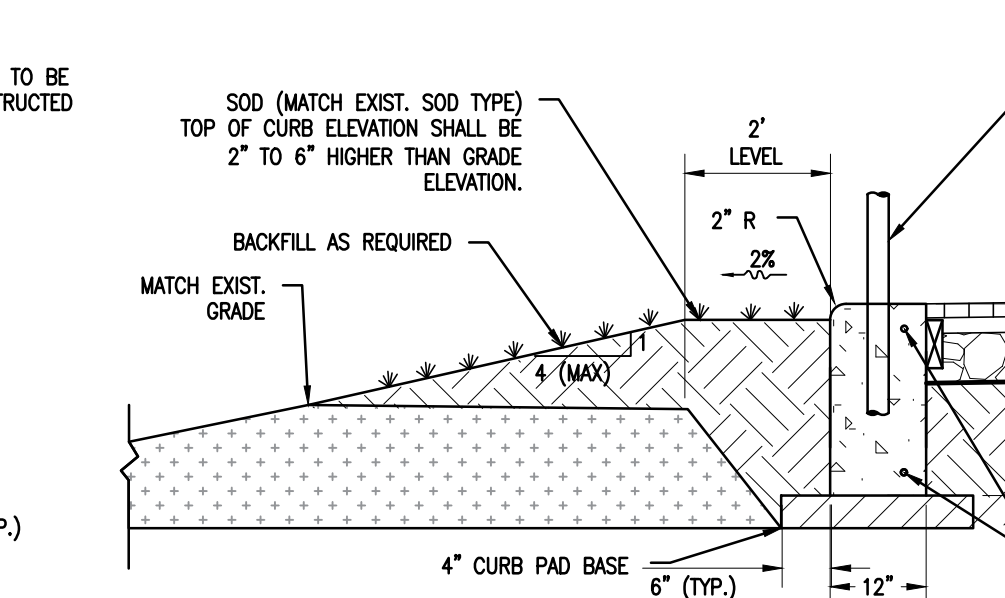
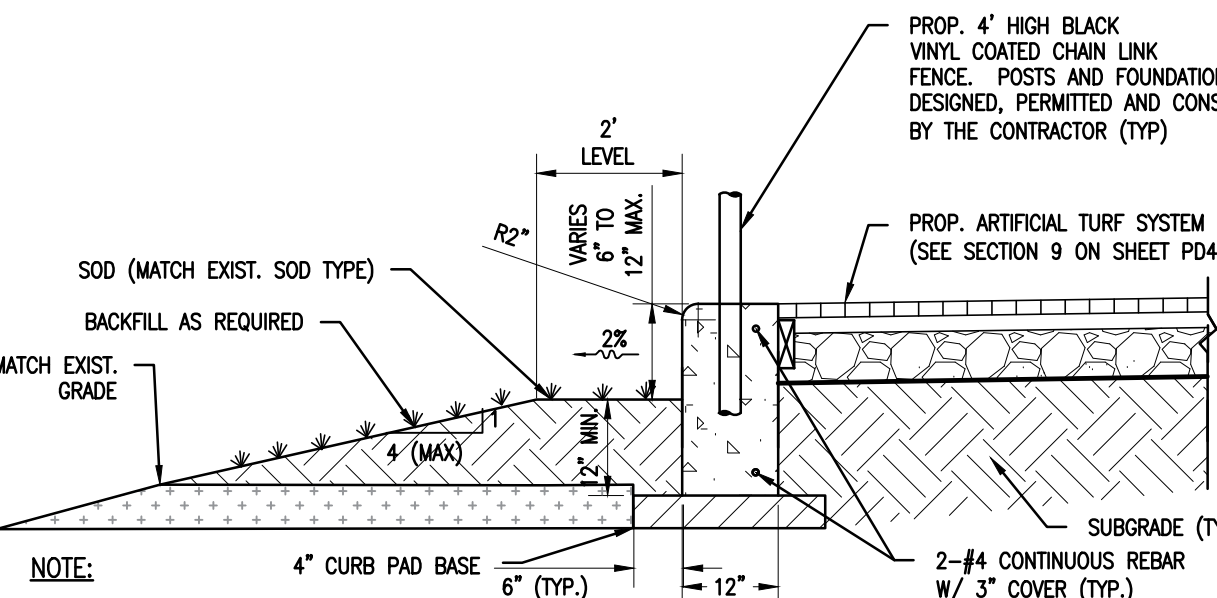


NOTE:
1. REFER TO FDOT INDEX 6011, GRAVITY WALL SCHEME 1 FOR ADDITIONAL INFORMATION AND REINFORCEMENT.

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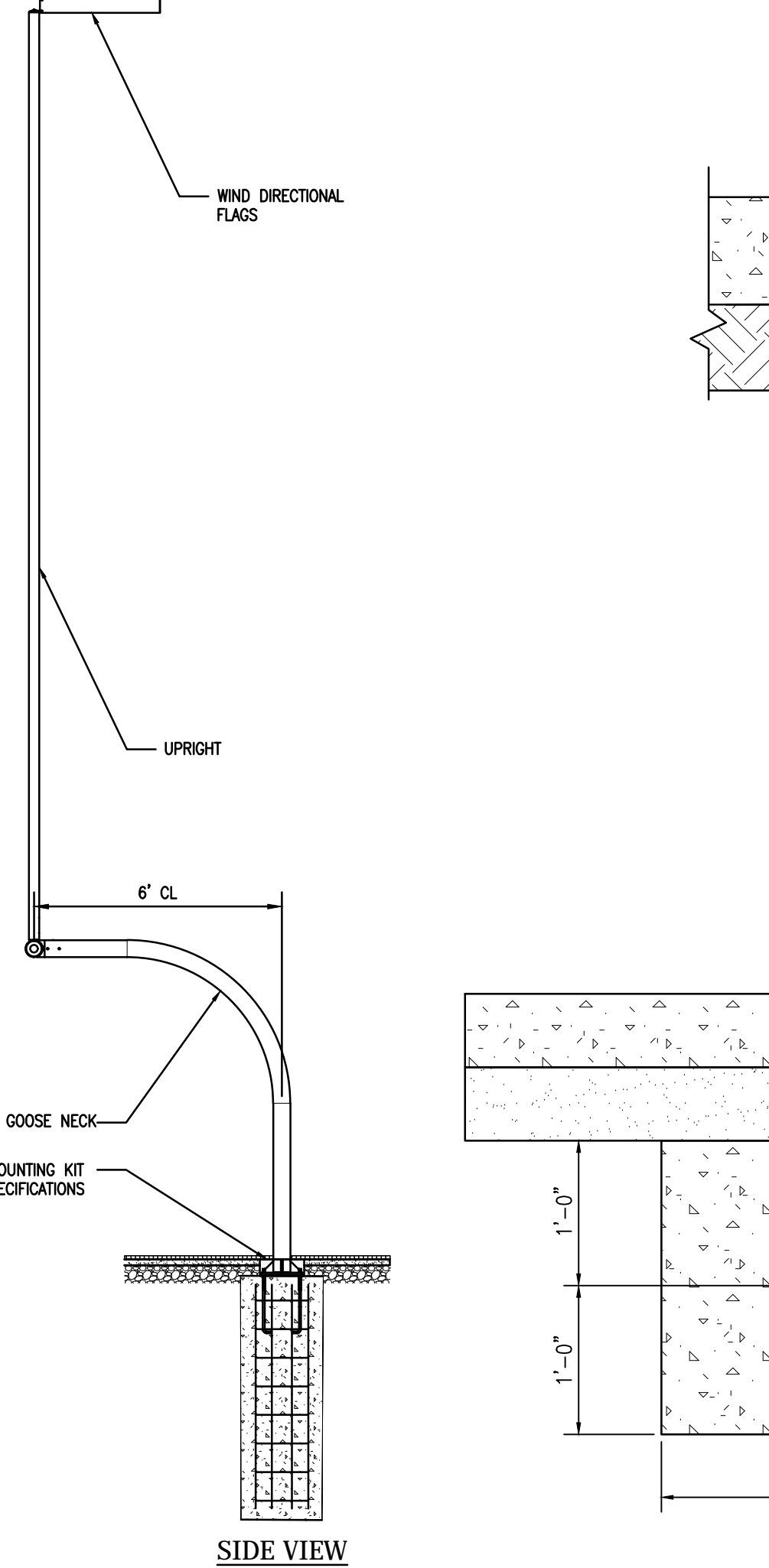
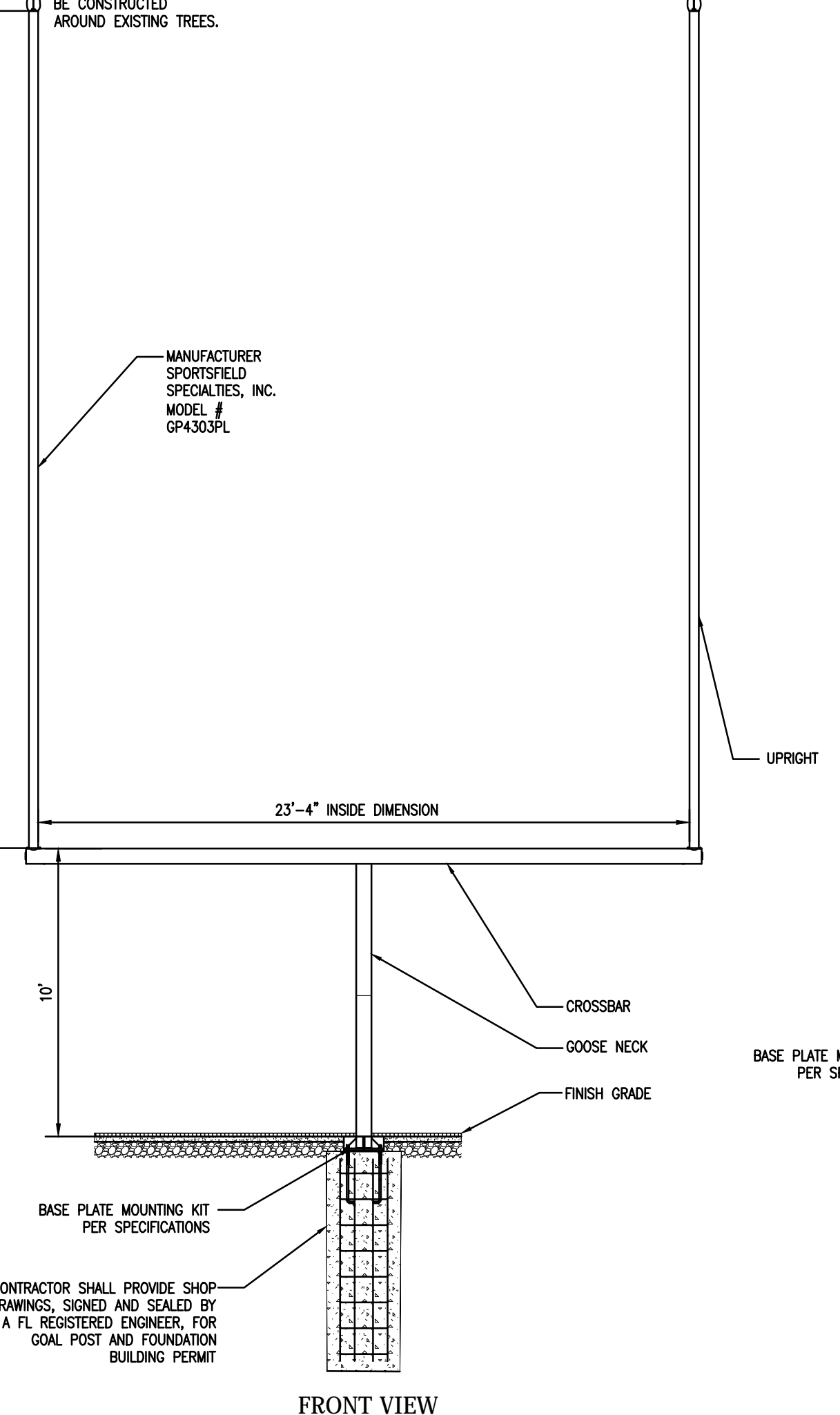


NOTE:
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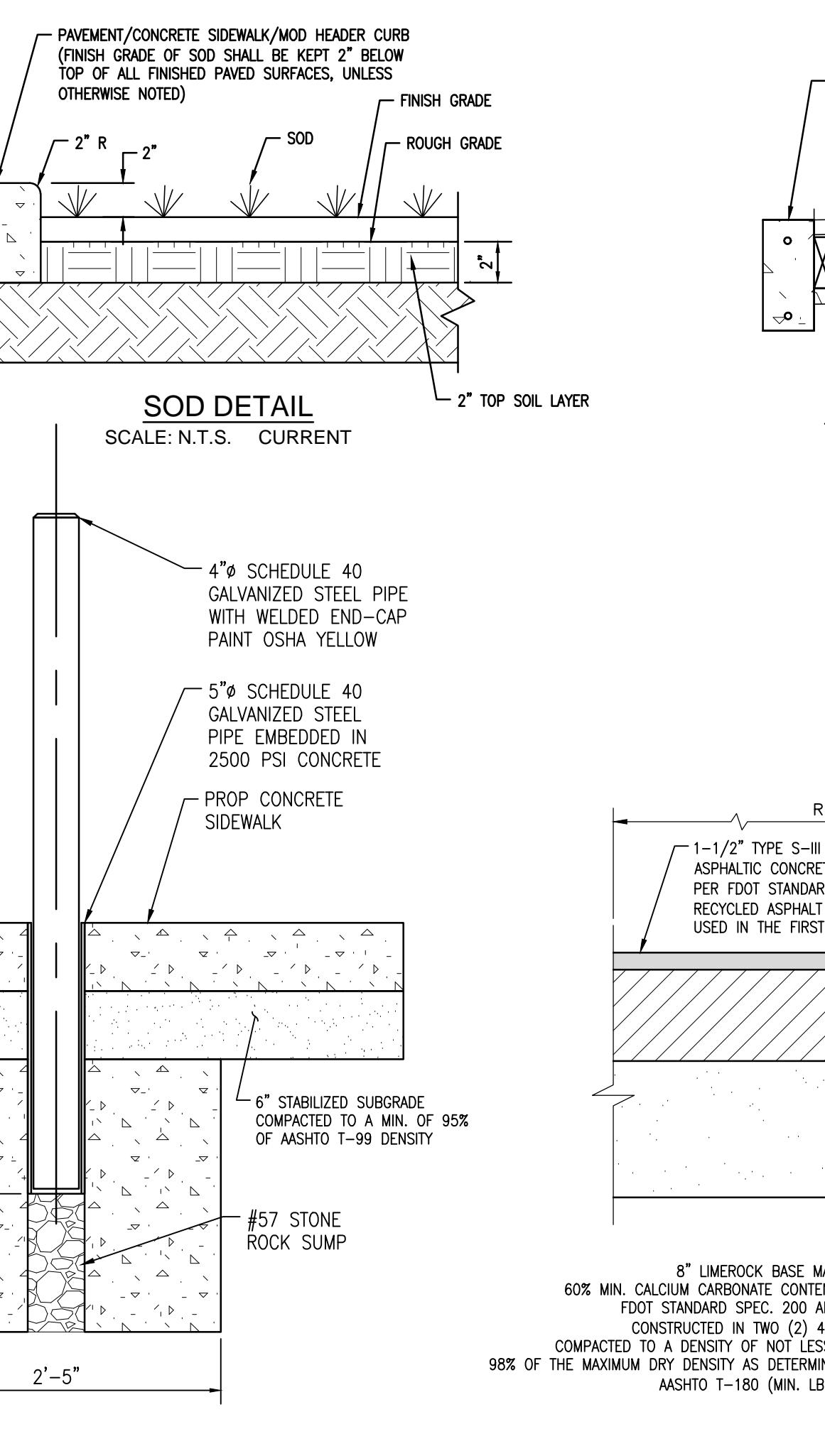
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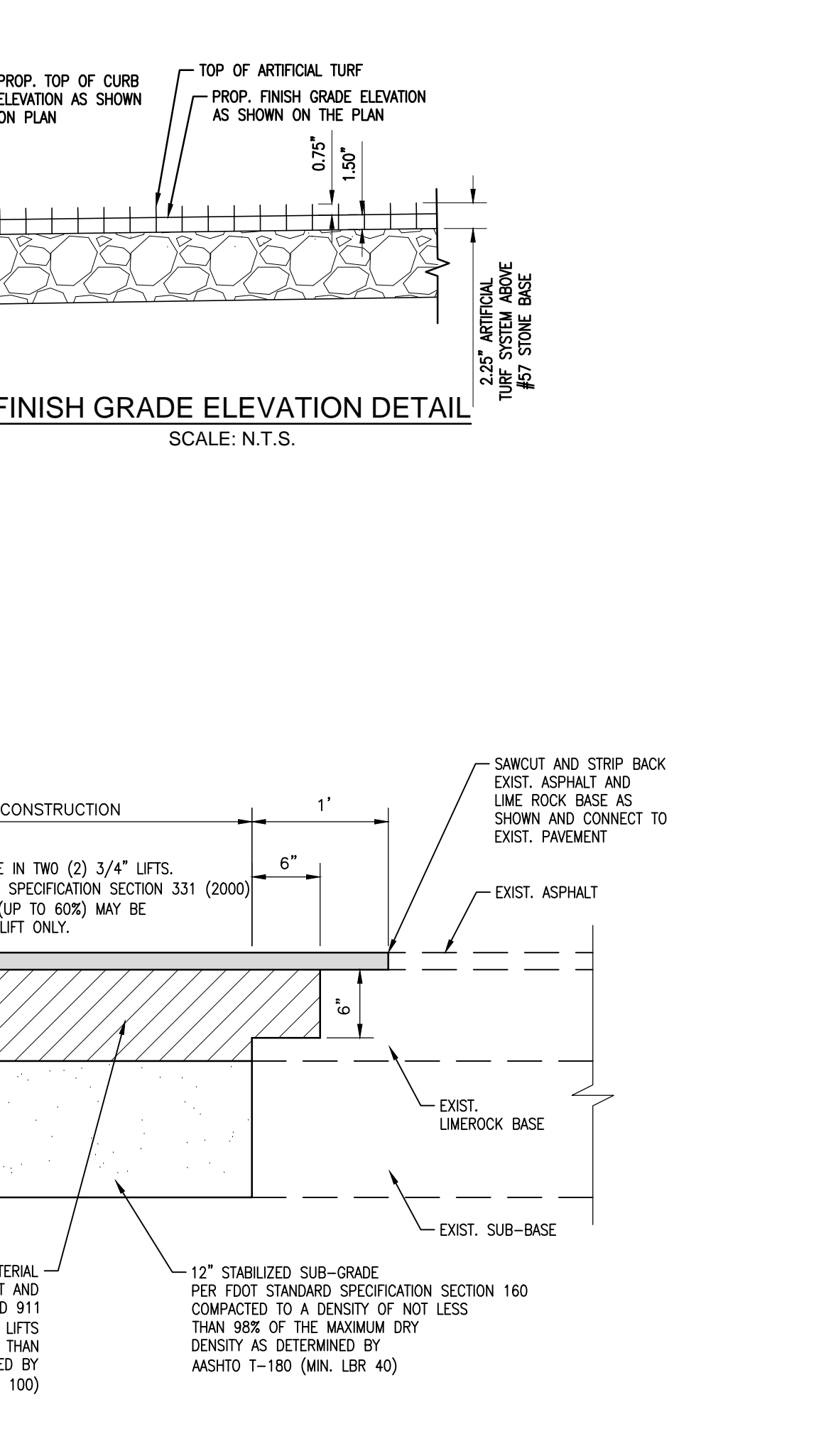
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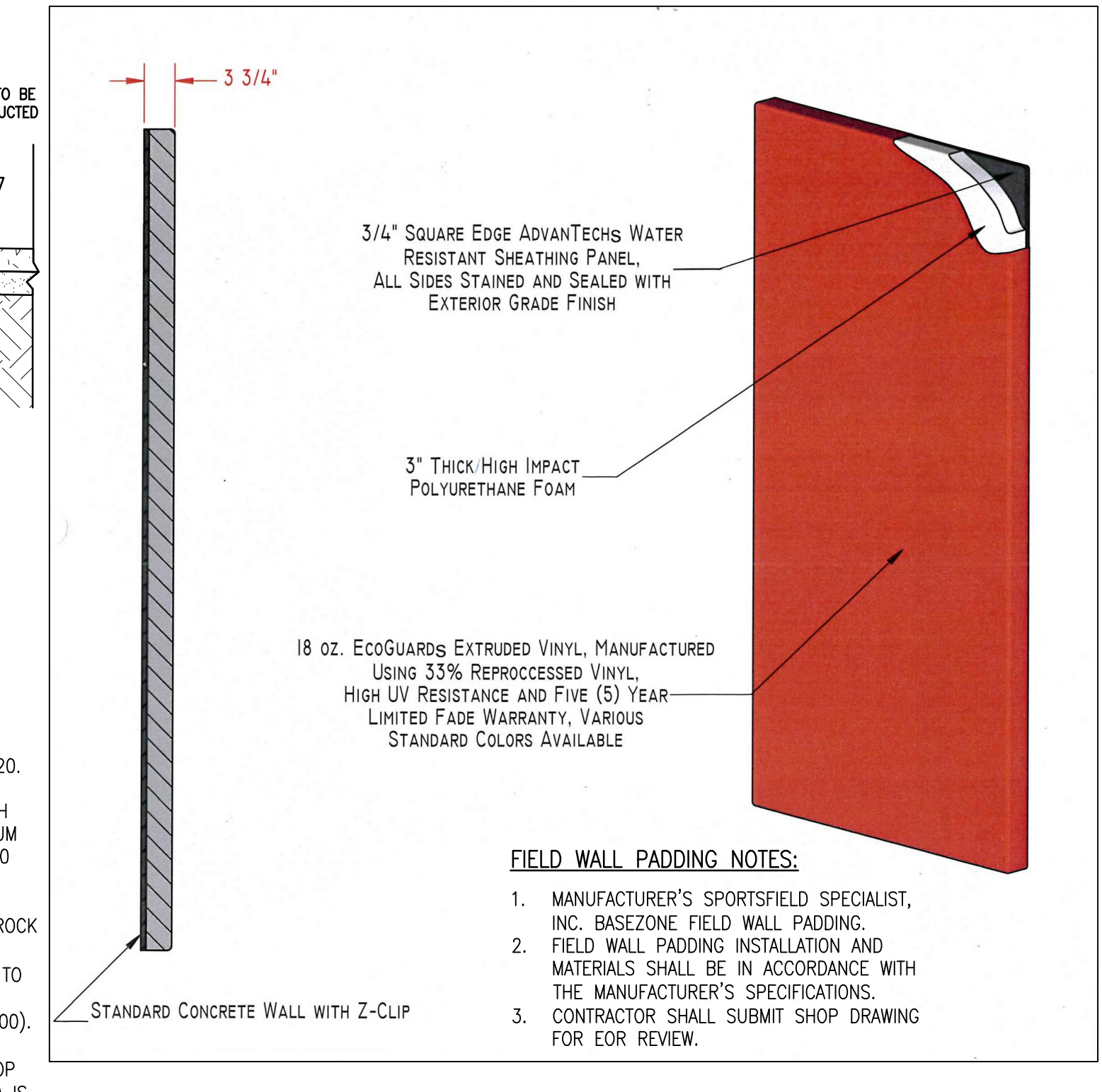
A PLATE MOUNT FOOTBALL GOAL POST
Scale: NTS



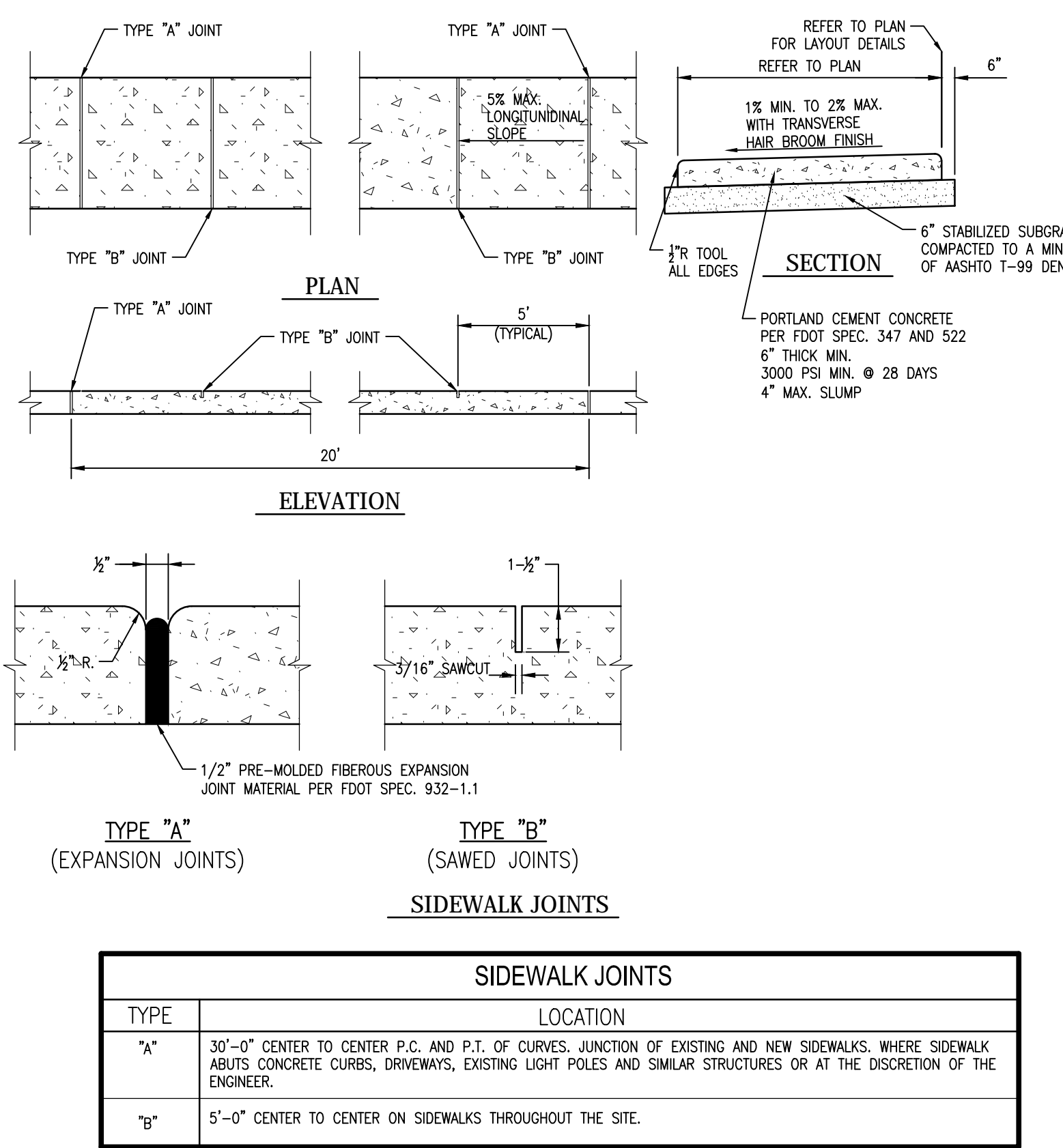
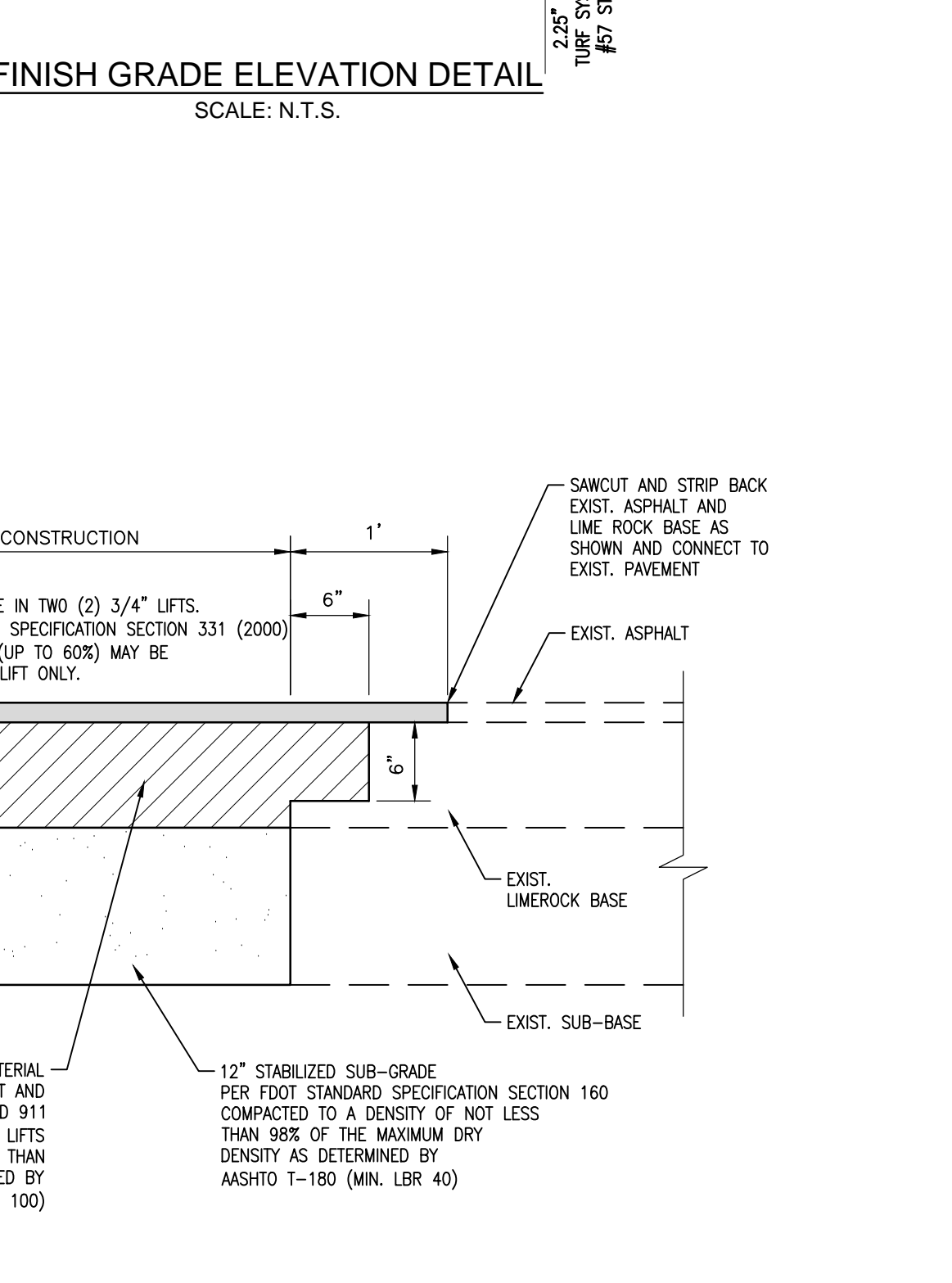
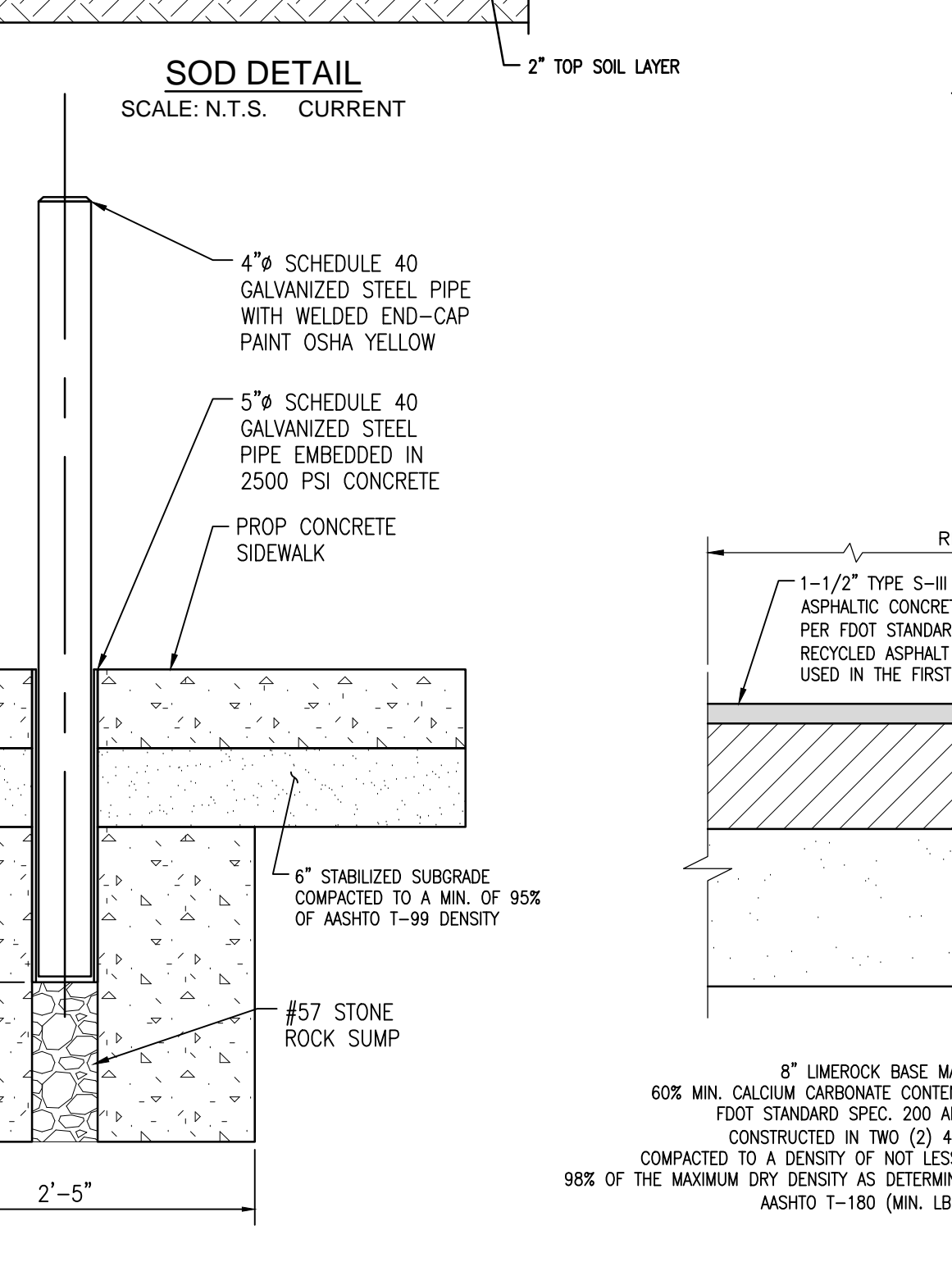
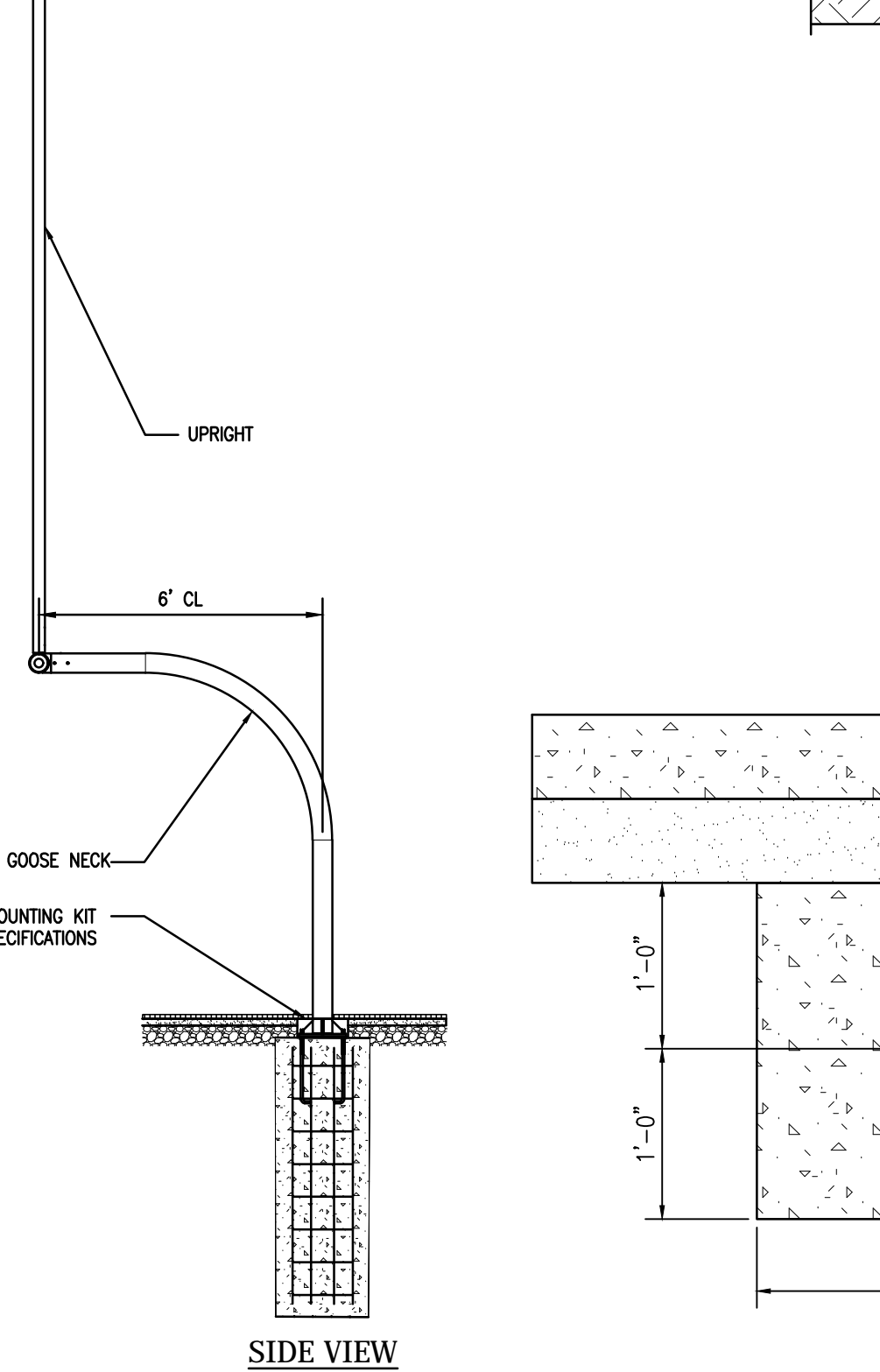
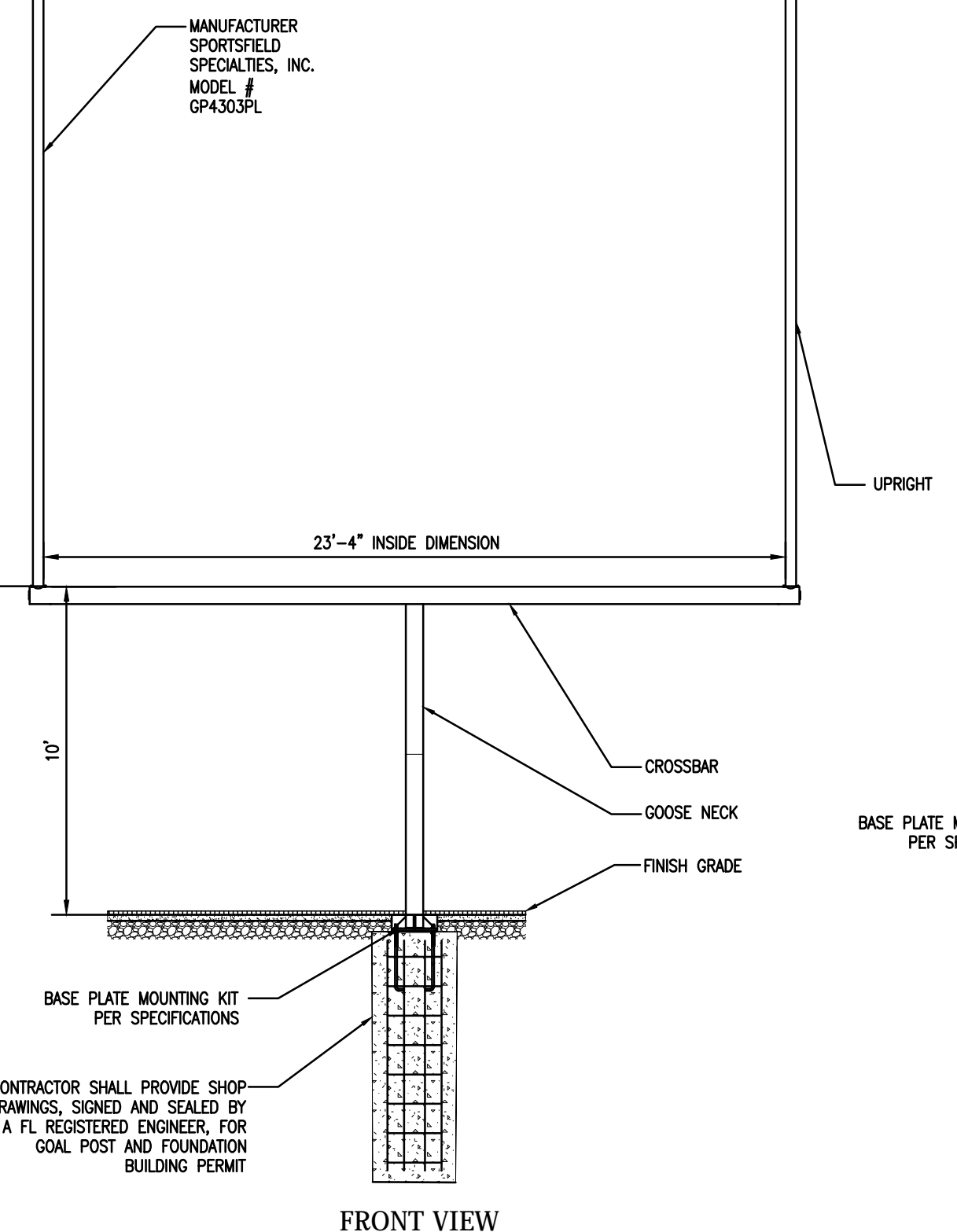
B REMOVABLE BOLLARD
Scale: NTS



CONNECTION TO EXISTING PAVEMENT
Scale: N.T.S.



FIELD WALL PADDING DETAIL
Scale: NTS



CONCRETE SIDEWALK
Scale: N.T.S. CURRENT

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
5/1/17		ADDENDUM NO. 3					

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

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SCALE: AS SHOWN
PROJECT No: 96-1630.112
DATE: 03/20/17

SHEET: PD3