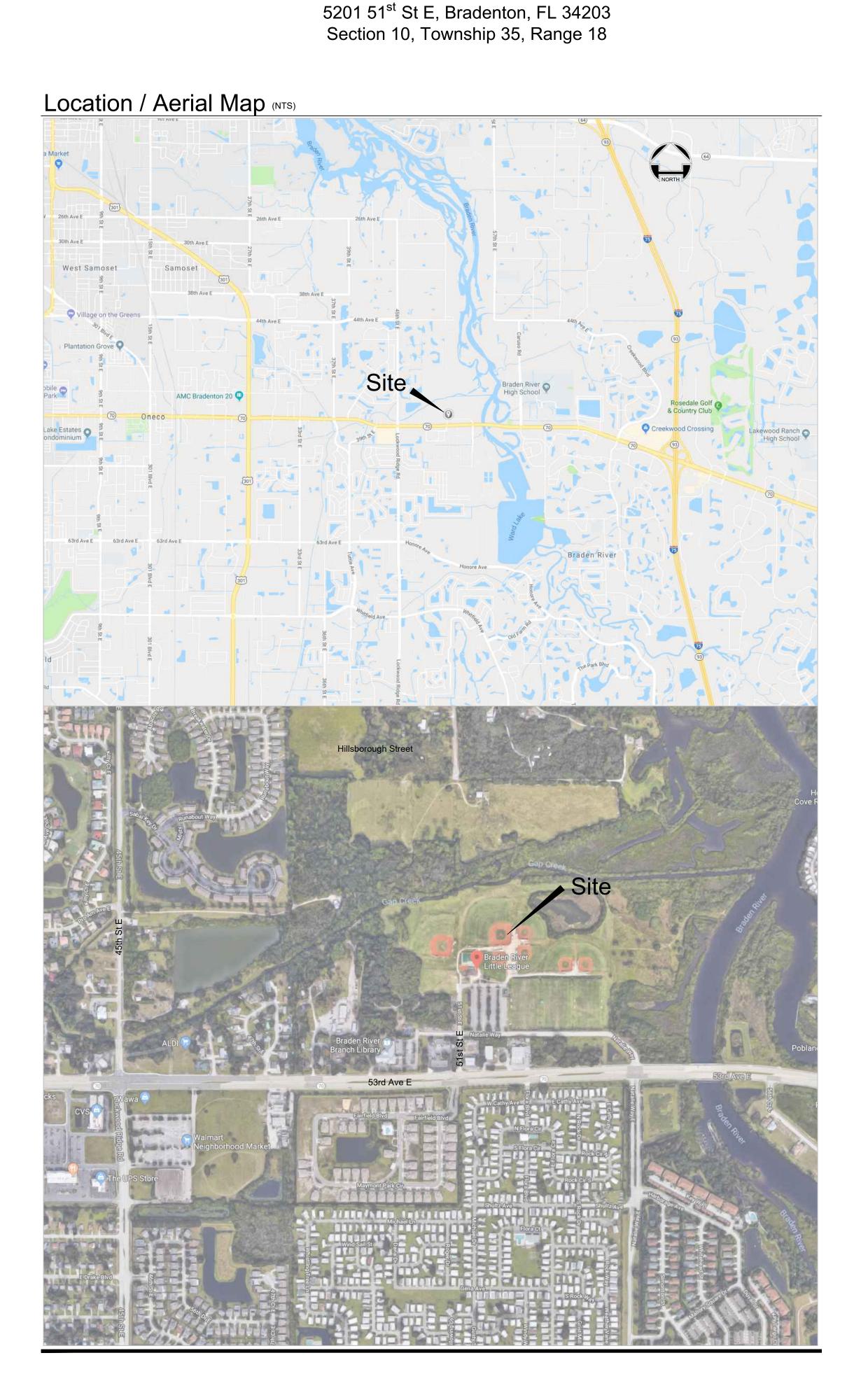
Manatee County Braden River Park - Baseball Field #6 Replacement

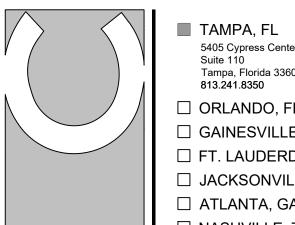






Sheet Index

No.					
C1	Cover Sheet				
C2	Site, Grading and Drainage Plan				
C3	Construction Surface Water Management Plan				
C4	Details				
C5	Notes				
	1				



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1., Revised per Manatee County, 6/18/18

GLE ASSOCIATES INC JOB NUMBER:

PLANENG INC JOB NUMBER:

2018-0507MACpub

ISSUE DATE: ISSUE DATE: __ DRAWN BY: JMG CHECKED BY: JMG/RMO ISSUE:

PLAN DESCRIPTION

Cover Sheet

SHEET NUMBER

Owner / Applicant:

Manatee County Government Property Management Dept.

1112 Manatee Avenue West, Suite 868-B Bradenton, FL. 34205 Ph. (941) 749.3063 Attn. Michael DiPinto

Civil Engineer/Planner:

Planeng, Inc. 501 Fitzgerald Street
Pensacola, Florida 32505
Ph. (850) 444-9493
Attn. Jay M. Gill, P.E.
[jay@planeng.com]

Architect:

GLE Associates, Inc. 5405 Cypress Center Drive, Ste. 110 Tampa, Florida 33609 Ph. (813) 241-8350

Attn. Angel Ruiz [aruiz@gleassociates.com>

Surveyor:

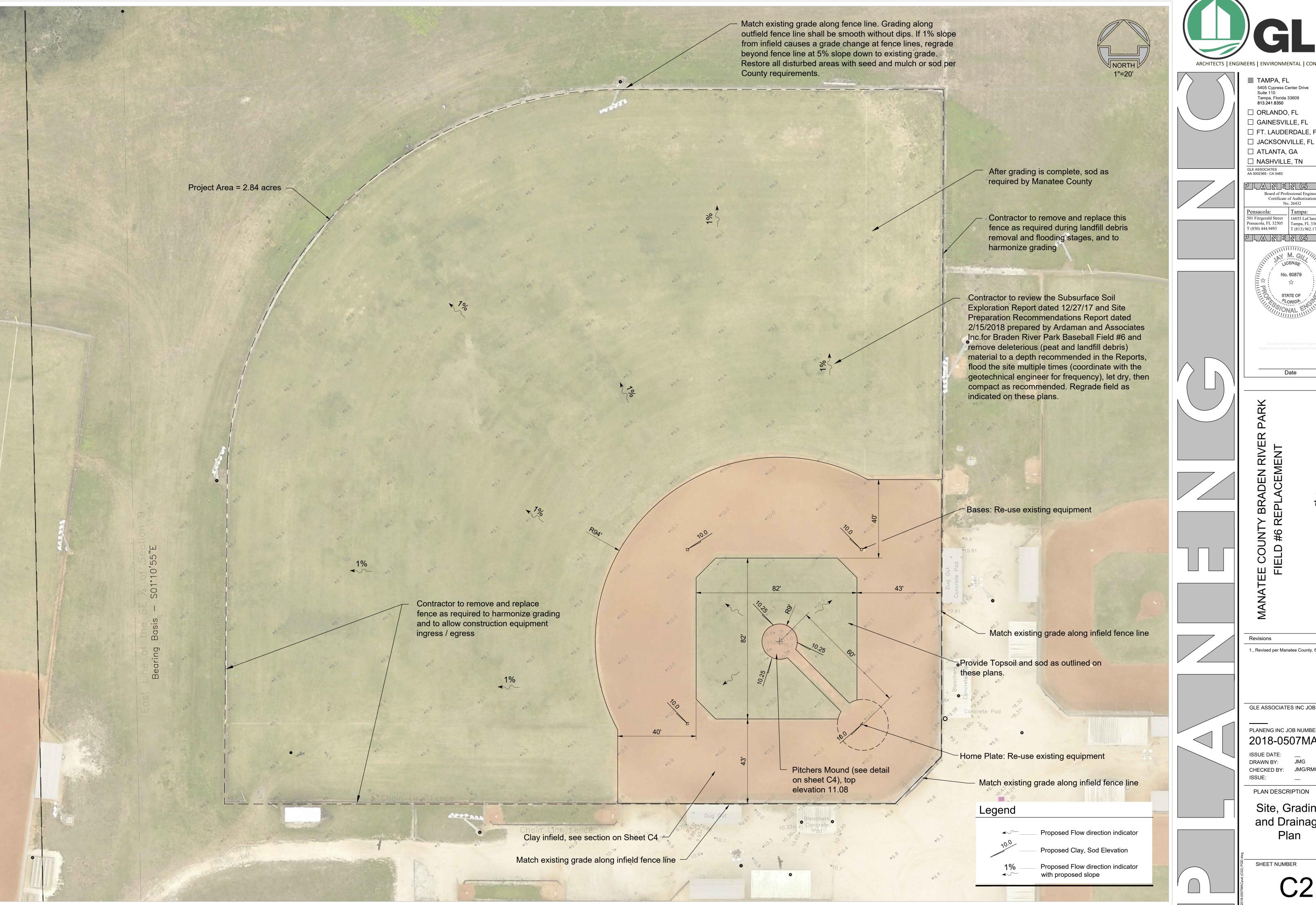
Manatee County Property Management Dept. - Survey Div.

1112 Manatee Ave. West Bradenton, FL 34205 Ph. (941) 748-4501 Attn. Todd E. Boyle, RSM

Geotechnical Engineer:

Ardaman and Associates, Inc. 78 Sarasota Center Blvd.

Sarasota, FL 34240 Ph. (941) 922-3526 Attn. Gregory Stevens, P.E.





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☐ FT. LAUDERDALE, FL

☐ ATLANTA, GA ☐ NASHVILLE, TN

Board of Professional Engineers Certificate of Authorization No. 26432
 Pensacola:
 Tampa:

 501 Fitzgerald Street
 16855 LeClare Shores Dr.

 Pensacola, FL 32505
 Tampa, FL 33624

 T (850) 444.9493
 T (813) 962.1752

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1., Revised per Manatee County, 6/18/18

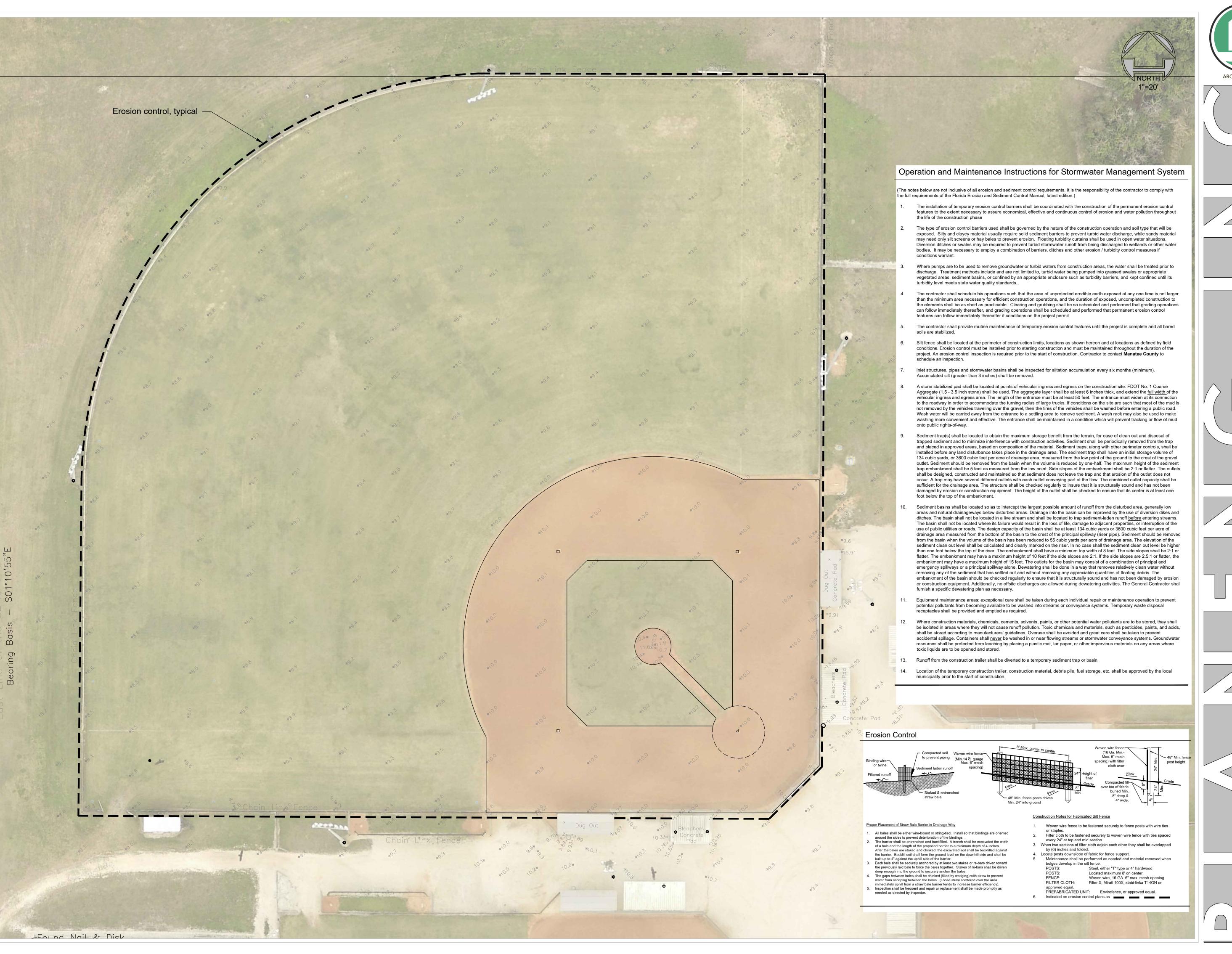
GLE ASSOCIATES INC JOB NUMBER:

PLANENG INC JOB NUMBER: 2018-0507MACpub

CHECKED BY: JMG/RMO

PLAN DESCRIPTION Site, Grading

and Drainage Plan





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Revisions

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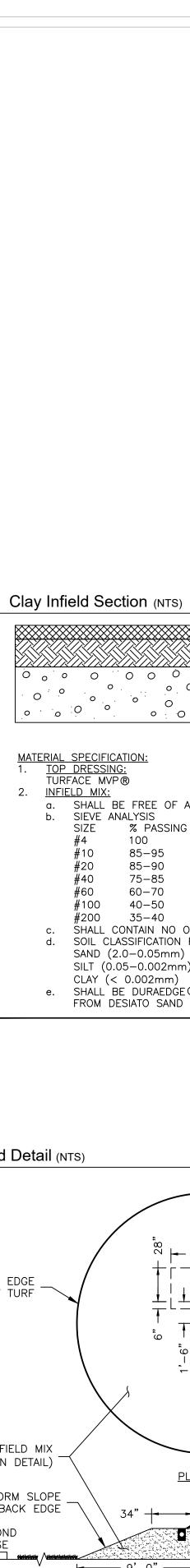
PLANENG INC JOB NUMBER: 2018-0507MACpub

ISSUE DATE: DRAWN BY: CHECKED BY: JMG/RMO

ISSUE:

PLAN DESCRIPTION

Construction Surface Water Management

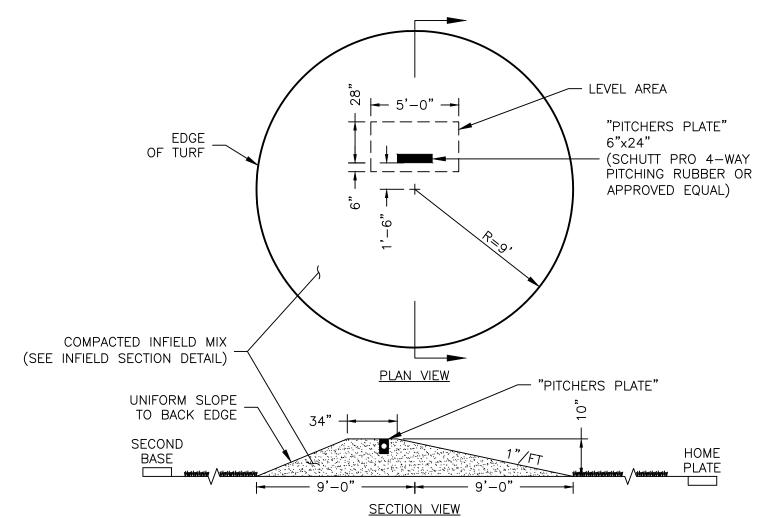


4" COMPACTED INFIELD MIX

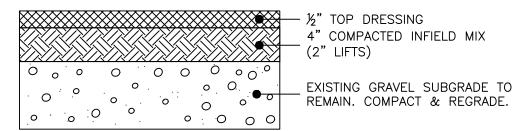
MATERIAL SPECIFICATION: 1. TOP DRESSING: TURFACE MVP®

- 100
- #200 35-40 c. SHALL CONTAIN NO ORGANIC MATERIAL d. SOIL CLASSIFICATION RANGE:
- SAND (2.0-0.05mm) 50-75% SILT (0.05-0.002mm) 12-22%

Pitchers Mound Detail (NTS)



OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW, FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.



2. <u>INFIELD MIX:</u>

- a. SHALL BE FREE OF ANY STONE OVER ¼" IN ANY DIMENSION
 b. SIEVE ANALYSIS
 SIZE % PASSING
- 85-95 85-90 75-85
- 60-70 #100 40-50
- CLAY (< 0.002mm) 10-16% e. SHALL BE DURAEDGE® RECREATIONAL INFIELD BASEBALL MIX FROM DESIATO SAND & GRAVEL, STORRS, CT OR APPROVED EQUAL

Temporary Vegetative Cover

Ground Stabilization Detail (NTS)

UNDISTURBED AREA

4" CLEAN FILL-

6" TOPSOIL PER PERMANENT VEGETATIVE -COVER NOTES

TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION



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5201 BRADENT

Revisions

1. 9/5/18, Revised per Manatee County

GLE ASSOCIATES INC JOB NUMBER:

PLANENG INC JOB NUMBER: 2018-0507MACpub

ISSUE DATE: DRAWN BY: JMG CHECKED BY: JMG/RMO

ISSUE: PLAN DESCRIPTION

Details Sheet

General Notes

- The contractor shall verify control points for line and grade prior to construction.
- Location, elevation, and dimensions of existing utilities, structures, and other features are shown in accordance with the best information available at time of the preparation of these plans but do not purport to be absolutely correct. All existing features are based on the Topographic Survey prepared by Manatee County Property Management Dept. Survey Division, entitled Braden River Park Baseball Field #6, dated 5/8/18.
- The contractor shall verify the location, elevation, and dimensions of all existing utilities, structures, and other features affecting his work and shall comply with all state, county, and local ordinances and obtain any necessary work permits that may be required prior to construction.
- The contractor shall be responsible for the complete coordination of construction scheduling between the contractor and all utility agencies. The contractor shall adjust his schedule to coincide with other required utilities.
- 5. The engineer reserves the right to perform quality assurance testing on all materials delivered to
- 6. In the event unsuitable material is encountered during excavation it is to be removed from the site except that it may be used to flatten slopes in areas approved by the engineers.
- 7. Overall cleanup shall be accomplished by the contractor in accordance with county standards or as directed by the engineer. Any and all expenses incurred for this work shall be included in the unit price bid for other items.
- The contractor shall endeavor to protect private property. Any damage caused by the contractor in the performance of his work shall be corrected to the satisfaction of the engineer at the contractor's expense. Payment shall not be made for this work.
- Any damage to state, county, or local roads caused by the contractor's equipment and operators shall be repaired by the contractor to the satisfaction of the engineer. Payment shall not be made
- 10. Any U.S.C. and G.S. Monument within limits of construction shall be protected by the contractor. If in danger of damage, the contractor shall notify: Director, Charting & Geodetic Services 6001 Executive Blvd. Attn. C172
 - Rockville, Maryland 20852 Phone: (301) 433-8319
- 11. Exterior sidewalks are to be constructed in County right-of-way as shown on these plans.
- 12. Wherever material or construction item specifications are not specifically covered by these plans, Manatee County, or directed by the engineer, "the Florida Department of Transportation standard specifications for road and bridge construction" latest edition, shall apply.
- 13. Florida statute requires a minimum of 2 days and a maximum of 5 days notice before a contractor may excavate. The contractor shall call SUNSHINE 1-800-432-4770 before excavation shall commence.
- 14. Contractor shall submit to the engineer and/or architect for review shop drawings via email on bid items. The contractor shall allow a minimum of 7 days for review of shop drawings. Approval of shop drawings is required prior to installation or construction. Substitution of specified items, if requested, will be evaluated by the project engineer.
- 15. It shall be the contractor's responsibility to notify (48 hours in advance) the engineer, utility company and regulatory agency for all inspections. It shall be the contractor's responsibility to supply results of all tests, in accordance with the testing schedule to the engineer prior to commencing the next phase. The tests required shall be performed by an independent testing laboratory approved by the owner and cost for the testing shall be paid for by the contractor and said cost will be included in the bid price.
- 16. The contractor shall contact the engineer's office immediately on any conflicts between what is shown herein and actual condition discovered during construction of any improvements shown on the drawings.
- 17. All practicable effort shall be taken during construction to control and prevent erosion and transport of sediment materials to inlets, surface drains, wetlands and lake areas. The contractor shall be responsible for all restoration efforts that may be required. The silt fence shall be installed (as shown on these plans) and inspected as defined by the Florida Department of Environmental Protection rule 62-621.300(4), F.A.C.
- 18. It is the responsibility of the Contractor to insure the installation of adequate erosion control barriers prior to the commencement of any site work. These erosion control devices must be maintained in good condition throughout the construction process and until all loose soils have stabilized. All erosion control devices shall be regularly inspected during construction and modified if conditions
- 19. The contractor is to control all fugitive dust originating on this project by watering or other methods
- 20. All disturbed areas shall be seeded and mulched, unless otherwise noted, after regrading.
- 21. Contractor shall provide a (min.) 24 inch wide strip of sod adjacent to curb or pavement
- 22. It is the responsibility of the contractor to establish in the field right of way lines, base lines, bench marks (elev.), center lines, and stationing as required to construct this project.
- 23. Contractor shall coordinate and reimburse the appropriate overhead utility company for required support of utility poles where construction may cause the pole to lose its self supporting ability.
- 24. Finished grade for ground elevations on drawings refer to grade after sod.
- 25. All tests shall be witnessed by the engineer and the utility company representative.
- 26. Proposed land alteration activities shall not unnecessarily remove existing vegetation or alter existing topography.
- 27. Site preparation and fill placement shall be performed in accordance with the recommendations and procedures specified in the geotechnical report associated with this project (refer to Ardaman and Associates, Inc. Subsurface Soil Exploration report for Braden River Park Baseball Field #6 (File #17-7466 dated 12/27/17)).
- 28. The Contractor shall protect all utilities and other improvements shown on these plans and all other utilities and other improvements not shown. The Contractor shall assume all responsibility for repairs of utilities and other improvements damaged during construction. The Contractor shall maintain sufficient protection to all utilities required to protect them from damage and to protect the public during construction. Any damage done to existing utilities shall be repaired by the contractor (at no additional expense) to a condition equal to or better than before the damage was done.

General Notes (continued)

- 29. Relocation of existing street light poles, power or telephone poles, existing utilities, irrigation systems, sidewalks, etc., necessary for completion of the work are the responsibility of the Contractor.
- 30. Prior to construction, the Contractor shall obtain from the Engineer or Owner, a copy of all pertinent permits related to this project. It shall be the Contractor's responsibility to ensure that all construction activities are in compliance with the conditions of all permits and approvals. It shall be the Contractor's responsibility to verify that all required permits have been secured to complete the work depicted in these plans. A copy of all permits shall be kept on site at all times during
- 31. It shall be the Contractor's responsibility to perform all necessary construction staking required to install the improvements shown on these drawings. Horizontal and vertical controls are shown on the boundary and topographic survey. Horizontal control shall be via an electronic file provided to the Contractor or his Surveyor. All documents, including original drawings, field notes, data and report originals are and shall remain the property of Planeng, Inc. as an instrument of service. If so requested in writing, the Contractor will be provided with reproducible drawings and other documents in consideration of which the Contractor agrees to use them without alteration solely in connection with the project.
- 32. The Engineer shall be consulted to make any/all required interpretations of the plans; however, this in no way relieves the Contractor of his responsibility for constructing the project to accomplish the intent of the plans.
- 33. Contractor to provide all warning signals, signs, lights, barricades, and flagman as required by applicable City, County or State regulations for construction adjacent to, or in public right-of-way.
- 34. It is suggested that the Contractor verify grading elevations prior to sodding or paving. Failure of adequate grading may result in resodding, regrading, and repaving if finished grades are incorrect. All proposed elevations are finished grades. As-built elevations and dimensions shall be certified by a professional land Surveyor registered in the State of Florida. All private and public property affected by this work shall be restored to a condition equal to or better than existed before commencing construction unless specifically exempted by the plans.
- 35. If, during construction, archeological finds are uncovered, all work shall stop and the state archeological office and the county shall be notified.

Bidding Notes

- The contractor is to supply all construction stakeout and an as-built survey of project. The cost to prepare an as-built survey by a professional surveyor shall be included in the contractor's proposal. As-built shall consist of a complete set of record drawings prepared by a professional land surveyor and supplied by the contractor and shall include but not limited to: storm sewer system; inlets; manholes; piping locations; all pipe inverts; manhole and inlet tops; pipe inverts; roadway center line elevations; curb flow line elevations; any and all design spot elevations expressly shown on the paving, grading and drainage plan. Surveyor will supply horizontal and vertical controls,
- 2. The information provided in these plans is solely to assist the contractor in assessing the nature and extent of conditions which will be encountered during the course of the work. The contractors are directed, prior to bidding to conduct whatever investigations they deem necessary to arrive at their own conclusion regarding the actual conditions that will be encountered, and upon which their bids will be based.
- The contractor is responsible for the coordination and cost of all required testing and inspections of the project. Contractor shall notify owner and engineer of all inspection requested from Manatee County, DEP or SWFWMD; 24 hours prior to request. The contractor shall invite the owner and the engineer to all scheduled inspections by any reviewing agency.
- Questions on quantities, quality, or materials which could change the contract price should be brought to the attention of the engineer prior to bidding. All questions will be answered and copied to all bidders.
- 5. The contractor shall contract with and direct a local testing laboratory for all required on site tests such as: concrete strength, slump, densities, or lbr of roadbeds, etc.. Copies of all tests shall be sent to the engineer and owner within 72 hours of the tests.
- The compaction of all lots in phases shall be tested at varying depths. The compaction testing of lots shall be performed on 1/4 of the lots at locations selected by the engineer. All lot fill shall meet 95 percent of the modified proctor.
- 7. All slopes 4:1 or greater shall be sodded.
- Contractor shall supply all of the equipment, material and personnel required for all testing.
- Contractor shall be responsible for the engineering cost of re-inspections.

Testing Schedule

ITEM	TEST	TEST INDENTIFICATION	TEST REQUIREMENT	TEST FREQUENCY
EMBANKMENT	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T180 ASTM D1557	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T191, T204, T238 ASTM D1556, D2937, D2922	95% OF MAXIMUM DENSITY, WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE.	ONE PER 100 L.F HORIZONTALLY; ALTERNATING LIFTS (1 FT)
BACKFILL OF STRUCTURES	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T180 ASTM D1557	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T191, T204, T238 ASTM D1556, D2937, D2922	98% OF MAXIMUM DENSITY	EVERY 2' VERTICALLY
ROADWAY SUBGRADE	BEARING VALUES	LBR-FLA, D.O.T.	LBR=40 MIN	ONE PER SOIL TYPE CHECK POINT LBR AT 500 L.F. HORIZONTALLY
	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T180 ASTM D1557	N/A	ONE PER SOIL TYPE
	FIELD DENSITY & THICKNESS	AASHTO T191, T238 ASTM D1556, D2922	98% OF MAXIMUM DENSITY	ONE PER 100 L.F HORI- ZONTALLY
BUILDING PADS	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T180 ASTM D1557	N/A	PER BUILDING PAD
	FIELD DENSITY	AASHTO T191, T204, T238 ASTM D1556, D2937, D2922	95% OF MAXIMUM DENSITY	AS DIRECTED BY SOILS ENGINEER
ROADWAY BASE (LIMEROCK, SHELL OR CRUSHRED CONCRETE)	BEARING VALUES	LBR-FLA, D.O.T.	100% LBR-FLA, D.O.T.	ONE PER SOURCE OR AS MATERIAL CHANGES CK. PT. LBR AT 500 L.F. HORIZONTAL
	MAXIMUM DENSITY OPTIMUM MOISTURE,	AASHTO T180 ASTM D1557	N/A	ONE PER SOURCE
	THICKNESS, FIELD DENSITY, GRADATION	AASHTO T191, T238 ASTM D1556, D2922 AASHTO T27, T89, T90	98% OF MAXIMUM DENSITY PER SPECIFICATIONS	ONE PER 100 L.F HORIZONTALLY
	ATTERBERG LIMITS	ASTM C136, D423, D424		ONE PER SOURCE
SOIL CEMENT BASE	MAXIMUM DENSITY OPTIMUM MOISTURE,	AASHTO T134 (STANDARD)	N/A	ONE PER SOIL TYPE MIN. 1 DAILY
	COMPRESSIVE STRENGTH SPECIMENS	PORTLAND CEMENT ASSOC. SPECIFICATIONS	300 PSI AT 7 DAYS	ONE SET PER SOIL TYPE DAILY
	FIELD DENSITY & THICKNESS	AASHTO T191, T238 ASTM D1556, D2922	95% OF MAXIMUM DENSITY	ONE PER 100 L.F HORIZONTALLY
ASPHALTIC CONCRETE	MATERIALS QUALITY			PER F.D.O.T SPECIFICATIONS
	BITUMEN CONTENT GRADATION	AASHTO T164, T30 ASTM D2172	PER FDOT SPECIFICATIONS	ONE PER DAY
	FIELD DENSITY	ASTM D02950-81	96% OF LAB DENSITY	ONE PER 100 L.F HORIZONTALLY
	THICKNESS	N/A	PER SPECIFICATIONS	ONE PER 100 L.F
CURB & ROADWAY CONCRETE	SLUMP TEST	AASHTO T119-82 ASTM C143	PER SPECIFICATIONS	AS DEEMED NECESSARY BY SOILS ENGINEER. TESTS MAY BE RUN BY THE SOILS ENGINEER OR HIS REPRE- SENTATIVE.
	COMPRESSIVE STRENGTH CYLINDERS	AASHTO T23-80 ASTM C31-69	N/A 3000 PSI @ 28 DAYS	ONE SET OF 4 CYLINDERS FOR 50 CUBIC YARD OF FRACTION THEREOF PER DAY INCLUDES ONE SLUMP TEST



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Board of Professional Engineers

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Notes Sheet