From: Development Review
To: Lopez, Jose; Development Review
Subject: RE: Rotary Sportsplex - Project# 2023050108, AR# 30224
Date: Friday, November 7, 2025 8:25:00 AM

Thank you. Your extension request has been placed on the November 17th DRC agenda.

From: Lopez, Jose <Jose.LopezJr@kimley-horn.com>
Sent: Thursday, November 6, 2025 3:06 PM
To: Development Review <DevelopmentReview@marionfl.org>
Subject: Rotary Sportsplex - Project# 2023050108, AR# 30224

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Good afternoon Development Review Team,

I'd like to request an extension to the subject project's approved Major Site Plan. Please let me know if you need any other information on my end. Thank you!

Regards,

Jose A. Lopez Jr., PE | Project Manager
Kimley-Horn | 800 SW 2nd Avenue, Suite 100, Gainesville, FL 32601
Direct: 352 554 9792 | Mobile: 954 655 7594 | Main: 352 374 3274
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Planned Vacation:
11/26 – 11/28
12/22 – 12/26

Marion County
Board of County Commissioners

Office of the County Engineer

412 SE 25th Ave.
Ocala, FL 34471
Phone: 352-671-8686
Fax: 352-671-8687

September 27, 2023

KIMLEY-HORN & ASSOCIATES, INC.
JOSE A. LOPEZ JR.
1700 SE 17 STREET, SUITE 200
OCALA, FL 34471

SUBJECT: **PLAN APPROVAL LETTER**
PROJECT NAME: ROTARY SPORTSPLEX
PROJECT #2023050108 APPLICATION #30224 PARCEL #31413-000-00

Dear JOSE A. LOPEZ JR.:

The above referenced Major Site Plan was approved by the Development Review Committee on September 25, 2023. The approval of this plan will expire on September 25, 2025. If an extension is needed in the future, please submit a written request to be considered by the Development Review Committee prior to the expiration date. The following comments are for your review. You need not reply to the comments, and if the comments have been previously completed, simply disregard:

DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.

DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.12.4.K - List of approved waivers, their conditions, and the date of approval
STATUS OF REVIEW: INFO
REMARKS: 6/26/23 - add waivers if requested in the future

DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: Additional Development Review Comments
STATUS OF REVIEW: INFO
REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24”x 36” sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.

DEPARTMENT: DOH - ENVIRONMENTAL HEALTH

REVIEW ITEM: Additional Health comments
STATUS OF REVIEW: INFO
REMARKS: NO INCREASE IN FLOW

DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 2.12.6 - Location of water and sewer. Does this need a special use permit?
STATUS OF REVIEW: INFO
REMARKS: defer to MCU

DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 2.12.27 - Show location of outside storage areas
STATUS OF REVIEW: INFO
REMARKS: will there be outside storage

Notify Bert Yancey, Road Construction Project Manager, at (352) 671-8683 or Bert.Yancey@marionfl.org, at least 72 hours prior to commencement of any site work.

No deviation from the approved set of plans will be allowed unless submitted by the project engineer for consideration and approved by the Office of the County Engineer or the Development Review Committee, as applicable.

A final site inspection will be scheduled upon receipt of the following: two signed and sealed As-Built plans, the Engineer's Certificate of Satisfactory Completion for non-subdivisions, digital files in both .dwg and .pdf format provided on disc, inspection and material testing report of all improvements, one copy of the survey field notes, and the Landscape and Irrigation As-Built Certification. This inspection must be completed and finaled prior to the issuance of a Certificate of Occupancy.

Feel free to contact the Office of the County Engineer at (352) 671-8686 or DevelopmentReview@marionfl.org should you have questions.

Sincerely,

Your Development Review Team
Office of the County Engineer

AS-BUILT SUBMITTAL CHECKLIST

The following items must be submitted to the Office of the County Engineer, Development Review, at the above address, before the 375 As-Built site inspection on the building permit, the site inspection without building permit, or the subdivision inspection will be scheduled. All signatures and seals must be originals:

1. Two 24"x 36" As-Built plans on paper (with original signatures & seals). LDC 2.18.4.F(1) & 2.21.4.F(1)

2. One CD with As-Built plans in both .pdf & .dwg Autocad 2000 or newer format. LDC 2.18.4.F(1) & 2.21.4.F(1)

3. Original Engineer's Certificate of Satisfactory Completion for non-subdivisions or subdivisions, as appropriate (with original signature & seal). This form can be obtained from the Office of the County Engineer, Development Review. LDC 2.18.4.F(3) & 2.21.4.G
   - ✓ For more information regarding the above three requirements, please the Office of the County Engineer, (352) 671-8686.

4. Inspection and material testing of all improvements shall be submitted in one report. LDC 2.18.4.F(2) & 2.21.4.F(2)
   - ✓ This information may be provided on the CD or on paper.
   - ✓ For more information, please contact Bert Yancey, Bert.Yancey@marionfl.org, at the Office of the County Engineer, (352) 671-8686.

5. One copy of the survey field notes shall be provided and shall detail survey methods used. LDC 6.4.8.
   - ✓ This information may be provided on the CD or on paper.
   - ✓ For more information, please contact Theresa Smail, Theresa.Smail@marionfl.org, or Zachary Stegall, Zachary.Stegall@marionfl.org, at the Office of the County Engineer, (352) 671-8686.

6. Concerning the 450/451 inspection on the building permit: Upon completion of the landscaping and/or irrigation installation, the contractor shall request an inspection by the design professional. Prior to the inspection, the contractor must provide a clear and legible as-built diagram of the irrigation system. A Landscape and Irrigation As-Built Certification shall be signed and sealed by the design professional and submitted to the County Landscape Architect prior to the issuance of a Certificate of Occupancy. LDC 6.8.12 & 6.9.6.B
   - ✓ For more information, please contact the Susan Heyen, Susan.Heyen@marionfl.org, in the Parks & Recreation Department, (352) 671-8560.

Revised 7/2020

30224

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

MAJOR SITE PLAN FOR

ROTARY SPORTSPLEX

MARION COUNTY, FLORIDA

SECTION 36, TOWNSHIP 15 SOUTH, RANGE 22 EAST

AUGUST 2023



GENERAL NOTES

LAND USE DEVELOPMENT DATA

PARCEL ID NUMBERS:	31413-000-00
PRESENT ZONING:	A-1
LAND USE:	PR (PRESERVATION)
SPRING PROTECTION ZONE:	PRIMARY

GENERAL CHARACTER OF DEVELOPMENT
CONSTRUCTION OF TWO SYNTHETIC TURF, MULTIPLE PURPOSE ATHLETIC FIELDS WITH ASSOCIATED PARKING FACILITIES, STORMWATER CONVEYANCE FACILITIES, DRAINAGE RETENTION AREAS, AND WELL WATER UTILITIES.

FLOOR-AREA RATIO:	0.11
PERCENTAGE OF BUILDING COVERAGE:	11.41%
PARCEL AREA:	83.35 ACRES
PROJECT AREA:	11.69 ACRES
PROJECT IMPERVIOUS AREA:	6.43 ACRES
EXISTING IMPERVIOUS AREA:	1.09 ACRES

PARKING CALCULATION:
EMS STATION:
1 SPACE / EMPLOYEE PER SHIFT @ 21 EMPLOYEES = 21 SPACES
TOTAL REQUIRED = 21
TOTAL PROVIDED = 46

WATER
POTABLE WATER WILL BE PROVIDED BY AN EXISTING WELL.

SEWER
WASTEWATER WILL BE PROVIDED BY AN EXISTING SEPTIC TANK & DRAIN FIELD. NO NEW SANITARY FLOWS ARE PROPOSED.

FEMA DESIGNATION
THE PROJECT LIES WITHIN FEMA FLOOD ZONE "X", AN AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 12083C0539D & 12083C0545D, EFFECTIVE AUGUST 28, 2008.

ROADWAYS, DRAINAGE, AND COMMON AREAS
THE OWNER SHALL PROVIDE PERPETUAL MAINTENANCE FOR THE STREETS, DRAINAGE SYSTEM AND COMMON AREAS OF THE PROJECT.

EASEMENTS
ALL EASEMENTS ARE DESIGNATED ON THE PLANS.

TREE LOCATION
TREE LOCATIONS ARE NOTED ON THE PLANS.

BASIS OF BEARING
BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), WITH 2011 ADJUSTMENT AS DERIVED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK.

VERTICAL DATUM
VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK V 506, ELEVATION 80.68' (NAVD 1988)

PERMITS
THIS PROJECT WILL REQUIRE ADDITIONAL PERMITS FROM:

- ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

ADDITIONAL NOTES

- TOPOGRAPHIC AND OTHER DATA IS BASED ON A SURVEY BY CFB SURVEYING, INC. DATED NOVEMBER 09, 2022. TOPOGRAPHY SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- ALL STREETS TO BE PRIVATE FOR PUBLIC USE.
- NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.
- ALL LIGHTING SHALL BE SHIELDED TO NOT CAST GLARE ONTO ADJACENT PROPERTY.
- ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT WHICH ARE NOT OTHERWISE PAVED SHALL BE IMMEDIATELY SODDED FOLLOWING FINAL GRADING. ALLOW FOR THICKNESS OF SOD WITH A 2-INCH UNDERCUT. SOD SHALL BE ARGENTINE BAHIA, AND SHALL BE REGULARLY WATERED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION DURATION.

SURVEY NOTICE

REFER TO SURVEY DRAWING BY CLYMER FARNER BARLEY, FOR BEARINGS & DISTANCES, MONUMENTATION, STATE PLANE COORDINATES, NOTE ON FLOOD ZONE, ETC.

WAIVERS

JUNE 31, 2023

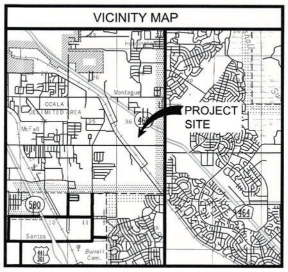
LDC 6.7.4.A - SHADE TREES
CODE STATES SHADE TREES ARE REQUIRED FOR ALL DEVELOPMENTS EXCLUDING RESIDENTIAL DEVELOPMENTS. THE POST-DEVELOPMENT RATIO OF SHADE TREES TO THE AREA OF THE SITE SHALL BE A MINIMUM OF ONE SHADE TREE PER 3,000 SQUARE FEET. APPLICANT REQUESTS WAIVER TO REDUCE THE SHADE TREE REQUIREMENT BY 40 %. DUE TO THE NATURE OF THE PROJECT AREA, WE ARE UNABLE TO PLANT THE REQUIRED NUMBER OF SHADE TREES WITHIN THE PROJECT LIMITS WHILE MAINTAINING THE HEALTH OF THE TREES. SHADE TREES WILL BE PLANTED IN THE PARKING LOT, DRA, AND FILLING IN THE EXISTING EAST BUFFER.

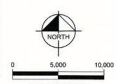
APPROVED

CONCURRENCY DEFERRAL NOTE

THIS PROJECT HAS NEITHER BEEN GRANTED CONCURRENCY APPROVAL, NOR BEEN GRANTED AND/OR RESERVED ANY PUBLIC FACILITY CAPACITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO, BUILDING PERMIT REVIEW.

VICINITY MAP





SCALE AS SHOWN

AGENCY CONTACT LISTING

ELECTRIC
OCALA ELECTRIC UTILITY
1805 NE 30TH AVE
OCALA, FL 34470
JENNIFER CONSTABLE
(352) 351-6620

TELEPHONE
CHARTER COMMUNICATIONS
602 EAST STATE ROAD 50, SUITE A
CLERMONT, FL 34711
KENNETH POWELL
(352) 266-2163

CABLE TV
CITY OF OCALA TELECOMMUNICATIONS
1805 NE 30TH AVE BUILDING 500
OCALA, FL 34470
WILLIAM WEAKLAND
(352)-401-6912

WATER & SEWER
MARION COUNTY UTILITIES
11800 SE US HWY 441
BELLEVIEW, FL 34420
JOSH KRAMER
(352) 438-2383

TELEPHONE
CENTURY LINK
319 SE BROADWAY ST
OCALA, FL 34471
KURT JUDD
(352) 401-6555

GAS
TECO PEOPLES GAS
600 W ROBINSON ST
ORLANDO, FL 32801
BRUCE STOUT
(407) 420-2678

PROJECT OWNER AND CONSULTANTS

OWNER/APPLICANT
MARION COUNTY BOARD OF COUNTY COMMISSIONERS
601 SE 25TH AVENUE
OCALA, FL 34471
(352) 438-2323

SURVEYOR:
CFB SURVEYING, INC.
4450 NE 83RD ROAD,
WILDWOOD, FL 34785
(352) 748-3126

CIVIL ENGINEERING CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.
1700 SE 17TH STREET, SUITE 200
OCALA, FL 34471
(352) 438-3000

GEOTECHNICAL CONSULTANT:
ANDREYEV ENGINEERING, INC.
1170 W. MINNEOLA AVENUE
OCALA, FL 34471
(352) 241-0508

DRAWING INDEX

C101 - COVER SHEET
C102 - GENERAL NOTES
C201 - DEMOLITION PLAN
C301 - KEY SHEET
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C302 - SITE PLAN
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C401 - PAVING, GRADING, & DRAINAGE PLAN
C402 - PAVING, GRADING, & DRAINAGE PLAN
C501 - UTILITY PLAN
C601 - EROSION CONTROL PLAN
C602 - EROSION CONTROL NOTES
C603 - EROSION CONTROL DETAILS
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C801 - FIELD GRADING PLAN
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C803 - FIELD STRIPING PLAN
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L3.00 - OVERALL HARDSCAPE PLAN
L3.01 - REFERENCE NOTES SCHEDULE
L3.50 - HARDSCAPE DETAILS
L3.51 - HARDSCAPE DETAILS
L3.52 - HARDSCAPE DETAILS

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LS-02 - TREE PRESERVATION PLAN - (MARION COUNTY PARK & RECREATION)
LS-03 - OVERALL PLANTING PLAN - (MARION COUNTY PARK & RECREATION)
LS-04 - PLANTING PLAN - (MARION COUNTY PARK & RECREATION)
LS-05 - IRRIGATION PLAN - (MARION COUNTY PARK & RECREATION)

E001 - GENERAL NOTES, SPECIFICATIONS AND LEGENDS - (CABRAL ENGINEERING INC.)
E101 - SITE ELECTRICAL AND LIGHTING PLAN - (CABRAL ENGINEERING INC.)
E201 - PARKING LOT PHOTOMETRIC PLAN - (CABRAL ENGINEERING INC.)
E202 - SOCCER FIELD PHOTOMETRIC PLAN - (CABRAL ENGINEERING INC.)
E203 - SOCCER FIELD PHOTOMETRIC PLAN - (CABRAL ENGINEERING INC.)
E701 - ELECTRICAL DIAGRAMS, SCHEDULES AND DETAILS - (CABRAL ENGINEERING INC.)
E702 - ELECTRICAL DIAGRAMS, SCHEDULES AND DETAILS - (CABRAL ENGINEERING INC.)

S101 - POLE AND FOUNDATION PLAN - (STRUCTURAL ENGINEERS, P.C.)

RECEIVED
NOV 1 8 2023
Marion County
Office of County Engineer

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE, EXCEPT AS WAIVED.

I HEREBY CERTIFY THAT I, MY SUCCESSORS AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN.

11/7/23
JARED GOODSPEED
FACILITIES MANAGEMENT DIRECTOR
MARION COUNTY BOARD OF COUNTY COMMISSIONERS

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY
△	NOT FOR CONSTRUCTION	-	-

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

COVER SHEET

ROTARY SPORTSPLEX
PREPARED FOR MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C101

GENERAL NOTES

1. ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE MARION COUNTY "LAND DEVELOPMENT CODE" AND "UTILITY MANUAL" AS APPLICABLE.
2. NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER AND PROJECT ENGINEER.
3. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
5. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
9. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
10. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
12. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.
13. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PROPERLY ABANDONED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
14. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
16. ALL SIGN POSTS TO BE U-CHANNEL GALVANIZED STEEL 2lbs/L.F. BREAKAWAY POSTS.
17. ALL UTILITIES UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE SLEEVED IN ACCORDANCE WITH SECTION B.2.6.a OF THE MARION COUNTY LDC.
18. ALL LIGHTING SHALL BE SHIELDED TO NOT CAST GLARE ONTO ADJACENT PROPERTY.
19. BUILDING SHALL COMPLY WITH THE IN BUILDING PUBLIC SAFETY MINIMUM RADIO SIGNAL STRENGTH REQUIREMENTS. THE LOCATION WILL NEED TO HIRE AN INDEPENDENT FIRM TO TEST THE STRENGTH OF THE SIGNAL AND IF DEEMED NECESSARY, ADD EQUIPMENT WHICH ALLOWS THE BUILDING TO MEET THE MINIMUM POLICIES. THE BUILDING MUST HAVE A PASSING RADIO TEST PRIOR TO CALLING FOR THE FINAL FIRE INSPECTION OF THE BUILDING. ANY INSTALLATION OF EQUIPMENT MUST BE DONE UNDER A PERMIT AND BE APPROVED BY THE OFFICE OF THE FIRE MARSHALL.
20. UPON COMPLETION OF THE LANDSCAPE INSTALLATION, THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE DESIGN PROFESSIONAL. A LANDSCAPE AND IRRIGATION AS-BUILT CERTIFICATION SHALL BE SIGNED AND SEALED BY THE DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY LANDSCAPE ARCHITECT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
21. THE CONTRACTOR SHALL OBTAIN AND PROVIDE A COPY OF THE N.P.D.E.S. PERMIT OR N.O.I. TO MARION COUNTY.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHWA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL DRAINAGE FACILITIES AND STORM STRUCTURES MUST BE BUILT PRIOR TO CONSTRUCTION OF ANY IMPERVIOUS SURFACES.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
3. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
4. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
6. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
7. UNDERGROUND LINES SHALL BE SURVEYED BY A PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
8. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
9. MARION COUNTY UTILITIES WILL OWN AND MAINTAIN THE WATER AND SEWER MAINS. DAMAGES TO THE HARDSCAPE, LANDSCAPE, OR RESTORATION WILL BE THE SOLE RESPONSIBILITY OF THE OWNER IN THE EVENT OF ANY MAIN REPAIR.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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RECEIVED
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Marion County
Office of County Engineer

No.	REVISIONS	DATE	BY
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1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
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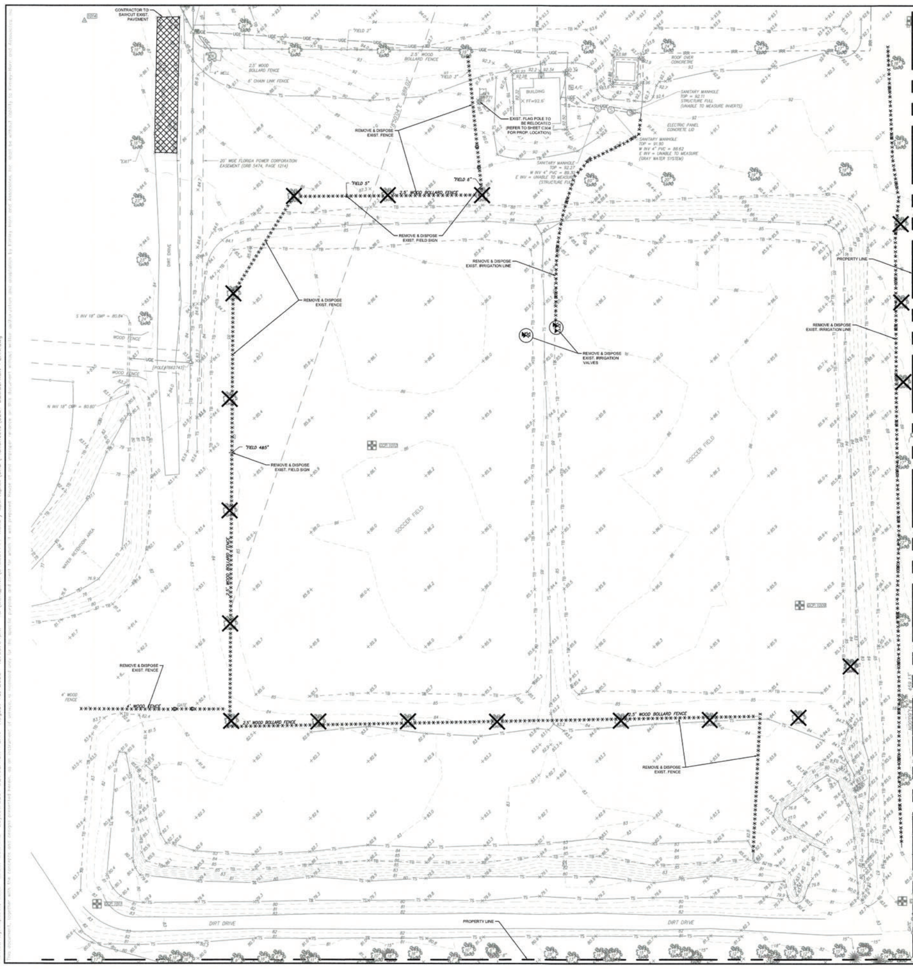
JOSE ANTONIO LOPEZ, JR., LICENSE No. 86449, STATE OF FLORIDA, PROFESSIONAL ENGINEER

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KEB
CHECKED BY MLB

GENERAL NOTES

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C102



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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DEMOLITION LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING FEATURE TO BE REMOVED
- EXISTING PAVEMENT TO BE REMOVED

GENERAL DEMOLITION NOTES:

1. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR REQUIRED DEMOLITION OF INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
2. ALL DEMOLITION MATERIALS ARE TO BE REMOVED FROM SITE AND PROPERLY DISPOSED OF AN APPROVED LANDFILL. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
3. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER.
4. VARIATIONS TO CONDITIONS OR DISCREPANCIES IN ACTUAL FIELD CONDITIONS AS THEY APPLY TO THE DEMOLITION OR SITE DEVELOPMENT WORK MUST BE BROUGHT TO THE OWNER'S REPRESENTATIVE AND ENGINEER'S ATTENTION PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION.
5. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
6. DEWATERING SHOULD BE ANTICIPATED AND ALL COSTS, PERMITS, AND EQUIPMENT FOR DEWATERING SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
7. DEMOLITION CONTRACTOR SHALL CONSTRUCT EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AS NECESSARY DURING DEMOLITION OPERATIONS OR AS DIRECTED BY THE ENGINEER, CITY, OR COUNTY INSPECTOR TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SOIL EROSION AND SEDIMENTATION.
8. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE IS TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ALL ROADWAYS AND WALKWAYS ARE TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
9. THE DEMOLITION CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES, FIRE MARSHAL, AND OWNER'S REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY UTILITY SERVICE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH AND ADHERENCE TO THE REGULATIONS REGARDING SERVICE INTERRUPTION OF EACH UTILITY COMPANY AND FIRE MARSHAL.
10. THE DEMOLITION CONTRACTOR MUST PROTECT ALL LANDSCAPING AND OTHER FEATURES DESIGNATED TO REMAIN, AND REPLACE SUCH ITEMS WITHOUT ADDITIONAL PAYMENT IF DISTURBED DURING DEMOLITION.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. THE DEMOLITION CONTRACTOR MUST PROTECT BENCH MARKS PROPERTY CORNERS, AND ALL OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF A MARKER MUST BE REMOVED, IT SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AND REPLACED.
13. THE DEMOLITION CONTRACTOR SHALL ACQUIRE ALL PERMITS AND PAY ALL ASSOCIATED FEES PERTAINING TO THE DEMOLITION AND DISPOSAL REQUIREMENTS. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING THIS WORK. IF THERE ARE NO LOCAL, STATE, OR FEDERAL REQUIREMENTS THE DEMOLITION CONTRACTOR SHALL ACQUIRE AN ENGINEER'S CERTIFICATION THAT THE WORK HAS BEEN DONE IN ACCORDANCE WITH THE PLANS.

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Office of County Engineer

No.	REVISIONS	DATE	BY
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PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JOSE ANTONIO LOPEZ, JR.
FLORIDA LICENSE NUMBER
STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

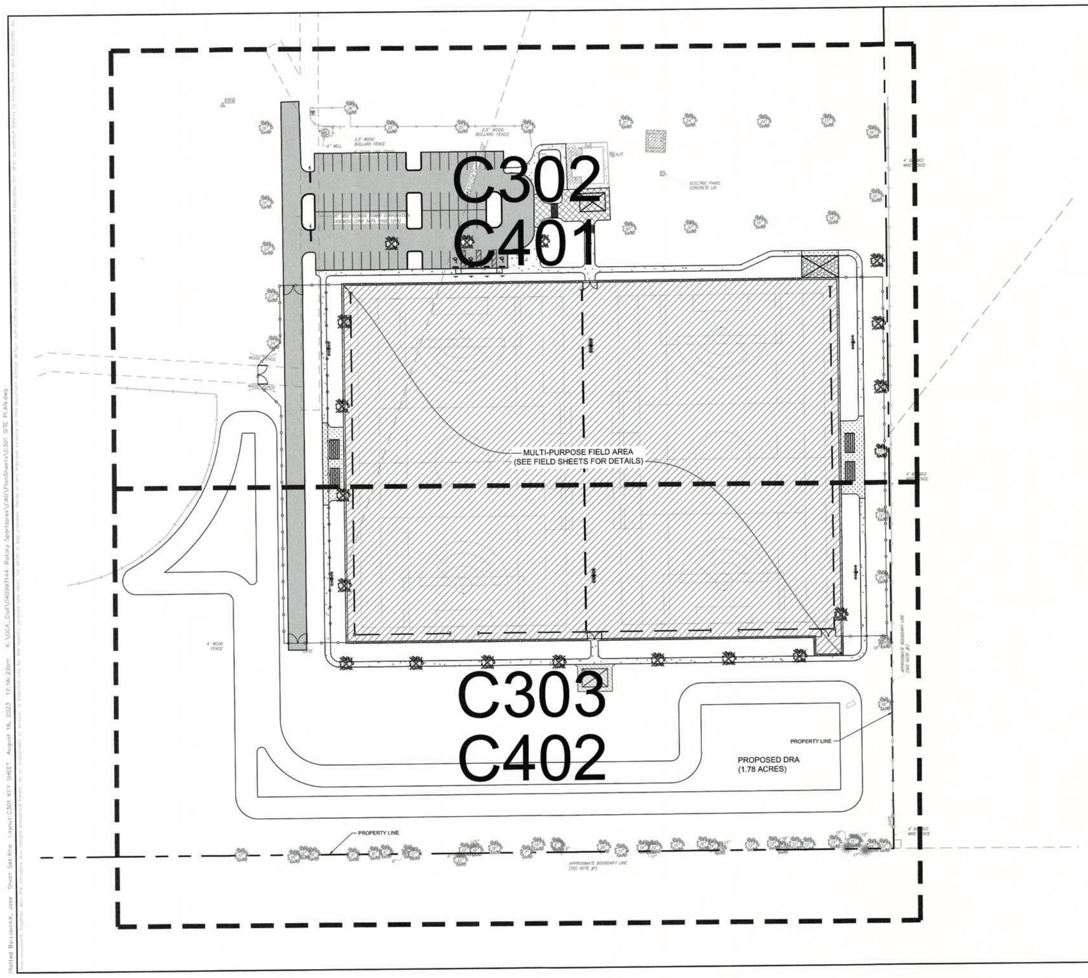
DEMOLITION PLAN

ROTARY SPORTSPLEX

PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C201

Plotted By: Lopez Jr., Jose Sheet Set: Kha Layout: C201 DEMOLITION PLAN August 18, 2023 12:56:04pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C201 DEMOLITION PLAN.dwg



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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No.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION	-	-

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KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
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KEY SHEET

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

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NOV 13 2023
Marion County
Office of County Engineer

SHEET NUMBER
C301

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25
All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Sand and mulch may be used if approved by the County Engineer or designee.
NOTICE
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NORTH
GRAPHIC SCALE IN FEET
0 75 150 300
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Office of County Engineer
NO. REVISIONS BY
1 NOT FOR CONSTRUCTION
PARCEL: 31415-001-01
LAND USE: PUBLIC
ZONING: A-1 GENERAL AGRICULTURE
PARCEL: 31399-000-20
LAND USE: PUBLIC
ZONING: G-U GOVERNMENT USE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PARCEL: 31399-002-00
LAND USE: COMMERCIAL
ZONING: B-5 HEAVY BUSINESS
15' TYPE "C" BUFFER
SE MARICAMP ROAD (SR-464)
PROJECT AREA
15' TYPE "C" BUFFER
PROPERTY LINE
PROPERTY LINE
PARCEL: 31385-002-00
LAND USE: COMMERCIAL
ZONING: B-5 HEAVY BUSINESS
PARCEL: 31382-000-20
LAND USE: COMMERCIAL
ZONING: B-5 HEAVY BUSINESS
PARCEL: 31045-001-00
LAND USE: PRESERVATION
ZONING: A-1 GENERAL AGRICULTURE
PARCEL: 31385-000-00
LAND USE: COMMERCIAL
ZONING: A-1 GENERAL AGRICULTURE
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KHA PROJECT 060093744
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA
OVERALL SITE PLAN
ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA
SHEET NUMBER
C301A

PAVEMENT LEGEND

- STANDARD DUTY PAVEMENT (SEE DETAIL SHEET - C701)
- 4" THICK CONCRETE SIDEWALK (SEE DETAIL SHEET - C701)
- 6" THICK CONCRETE SIDEWALK (SEE DETAIL SHEET - C701)
- PRE-MANUFACTURED BUILDING FOUNDATION (SEE DETAIL SHEET - L3.52)
- ACCENT CONCRETE PAVEMENT (SEE DETAIL SHEET - L3.52)

CURB LEGEND SEE SHEET - C701 FOR DETAIL

- (D) - TYPE 'D' CURB
- (W) - CONCRETE WHEEL STOP (SEE DETAIL SHEET - C701)
- (TE) - THICKENED EDGE SIDEWALK (SEE DETAIL SHEET - C701)
- (ST) - STAIR WITH HANDRAIL (SEE DETAIL SHEET - L3.52)

SIGN AND PAVEMENT MARKING LEGEND

- [1] - 24" STOP SIGN (R1-1) WITH 24" WHITE STOP BAR.
- [2] - 6" WHITE STRIPE
- [3] - HANDICAP SPACES PER FLORIDA'S ACCESSIBILITY CODE WITH SIGNS AND WHEEL STOPS. (SEE SHEET - C701 FOR DETAILS)

ALL SIGN POSTS SHALL BE 2"X2" GALVANIZED STEEL (14 GAUGE THICKNESS) UNLESS NOTED IN THE CONSTRUCTION DETAILS.

NOTES:

1. ALL ON-SITE PAVEMENT MARKINGS ARE TO BE PAINTED USING NON-SLIP PAINT.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
3. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION PER SURVEY DATED NOVEMBER 9, 2022, BY CFB SURVEYING.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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NOV 1 3 2023
Marion County
Office of County Engineer

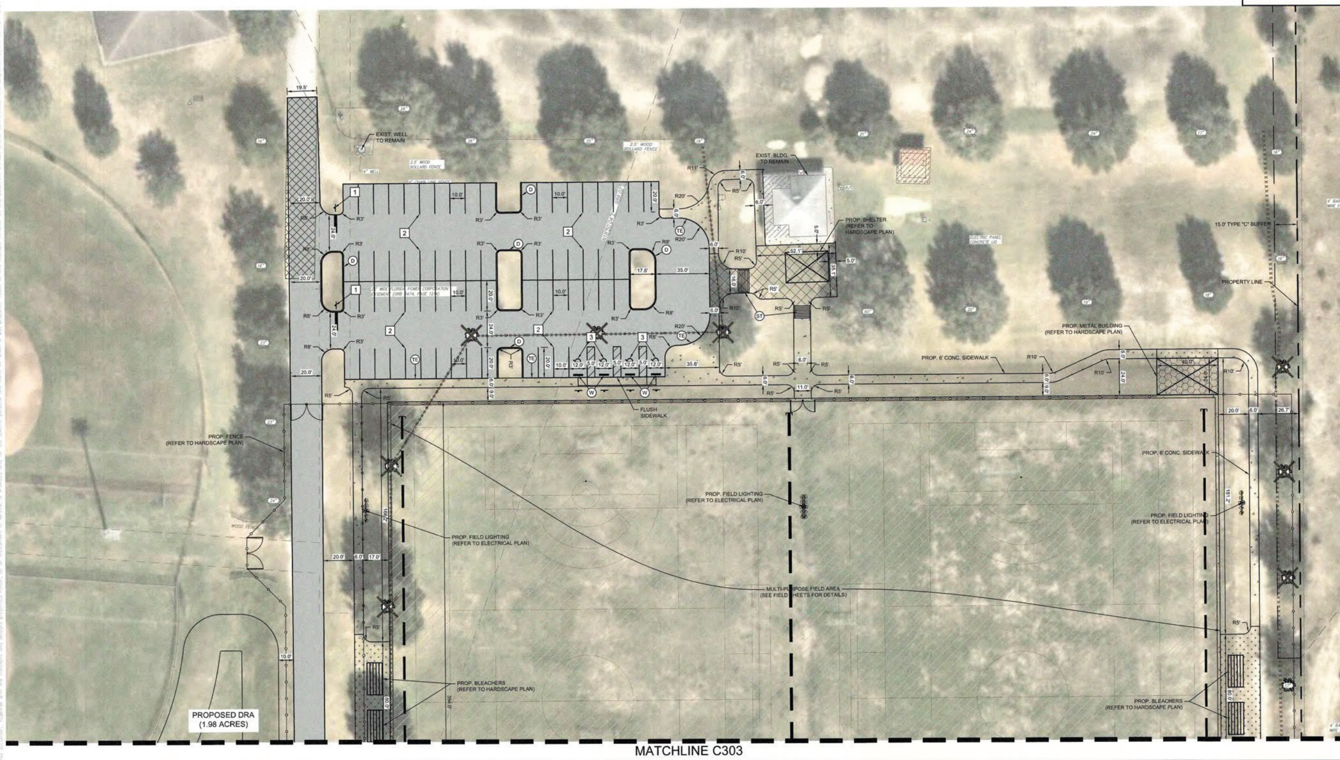
DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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No.	REVISIONS	DATE	BY
△	NOT FOR CONSTRUCTION	-	-



MATCHLINE C303

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KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
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SITE PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C302



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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NO.	DESCRIPTION	DATE	BY
1	PERMIT CONSTRUCTION REVISIONS	10/31/23	RH

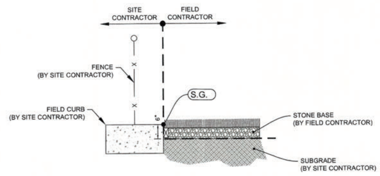
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KHA PROJECT 048144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

SITE PLAN

ROTARY SPORTSPLEX
PREPARED FOR MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C303



CONTRACTOR WORK LIMITS DETAIL

N.T.S.

LEGEND

- (100.00) - PROPOSED SPOT ELEVATION
- ST-XX - STORM DRAINAGE STRUCTURE LABEL
- PROPOSED YARD DRAIN
- PROPOSED DRAINAGE INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED STORM PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED FLOW DIRECTION ARROWS

NOTES:

1. ALL GRADES ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
2. MAXIMUM RUNNING SLOPE ON SIDEWALKS SHALL NOT EXCEED 5.00% (1:20).
3. MAXIMUM CROSS SLOPE ON SIDEWALKS SHALL NOT EXCEED 2.00% (1:50).
4. MAXIMUM SLOPE IN ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% (1:50) IN ANY DIRECTION.
5. STORM PIPE MATERIALS LABELED "SD" SHALL BE A-2000 PVC, HP STORM, RIGID WALL WATER TIGHT HDPE, OR RCP, AND CONFORM WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. STORM PIPES WITH A REQUIRED SPECIFIC MATERIAL ARE NOTED ON THE PLANS.
6. ALL FINAL STORM DRAIN MATERIALS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND NOTED ON THE RECORD DRAWINGS.
7. ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, TO BE SODDED WITH BAHIA.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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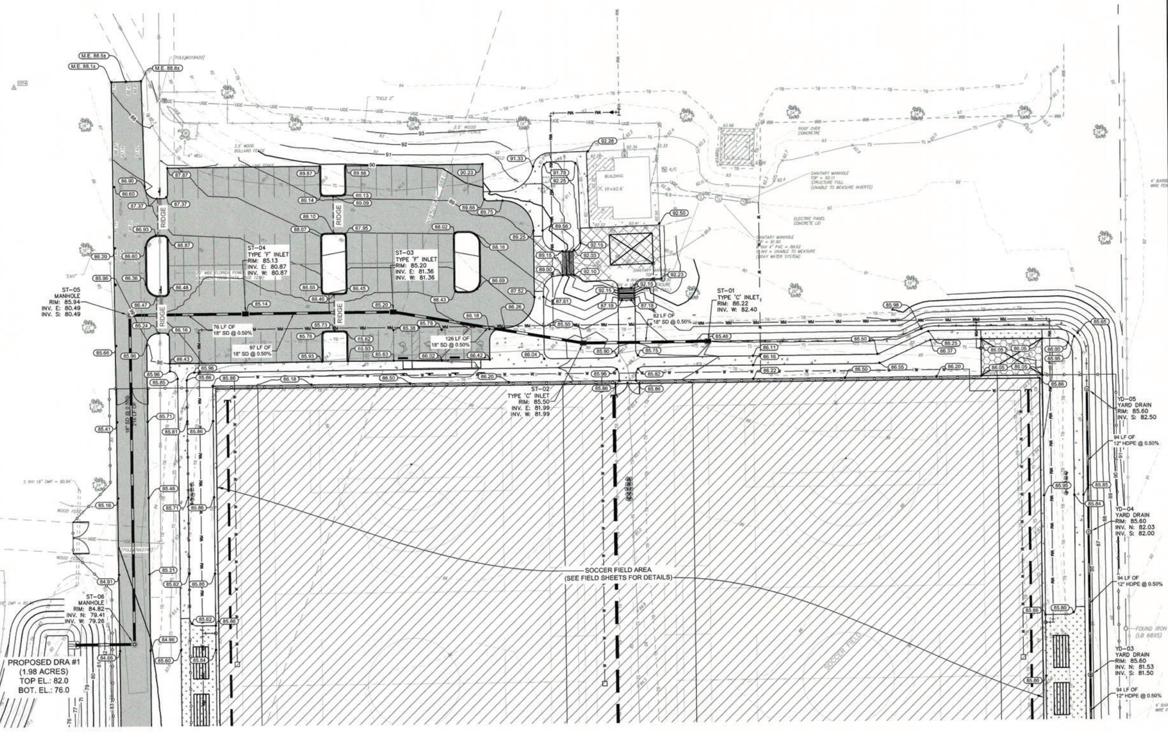
DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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No.	REVISIONS	DATE	BY
	NOT FOR CONSTRUCTION	-	-



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1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

JOSE ANTONIO LOPEZ JR.
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA

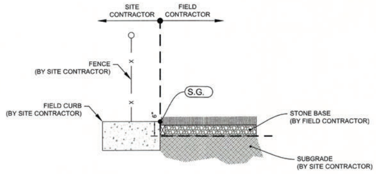
KHA PROJECT	040997144
DATE	AUGUST 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

PAVING, GRADING, & DRAINAGE PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C401

Plotted By: Lopez Jr., Jose Sheet Set: Kha Layout: C401 August 18, 2023 12:57:11pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C401 PAVING GRADING & DRAINAGE.dwg



CONTRACTOR WORK LIMITS DETAIL

N.T.S.

LEGEND

- (100.00) - PROPOSED SPOT ELEVATION
- ST-XX - STORM DRAINAGE STRUCTURE LABEL
- PROPOSED YARD DRAIN
- PROPOSED DRAINAGE INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED STORM PIPE
- 80 - EXISTING CONTOURS
- 80 - PROPOSED CONTOURS
- PROPOSED FLOW DIRECTION ARROWS

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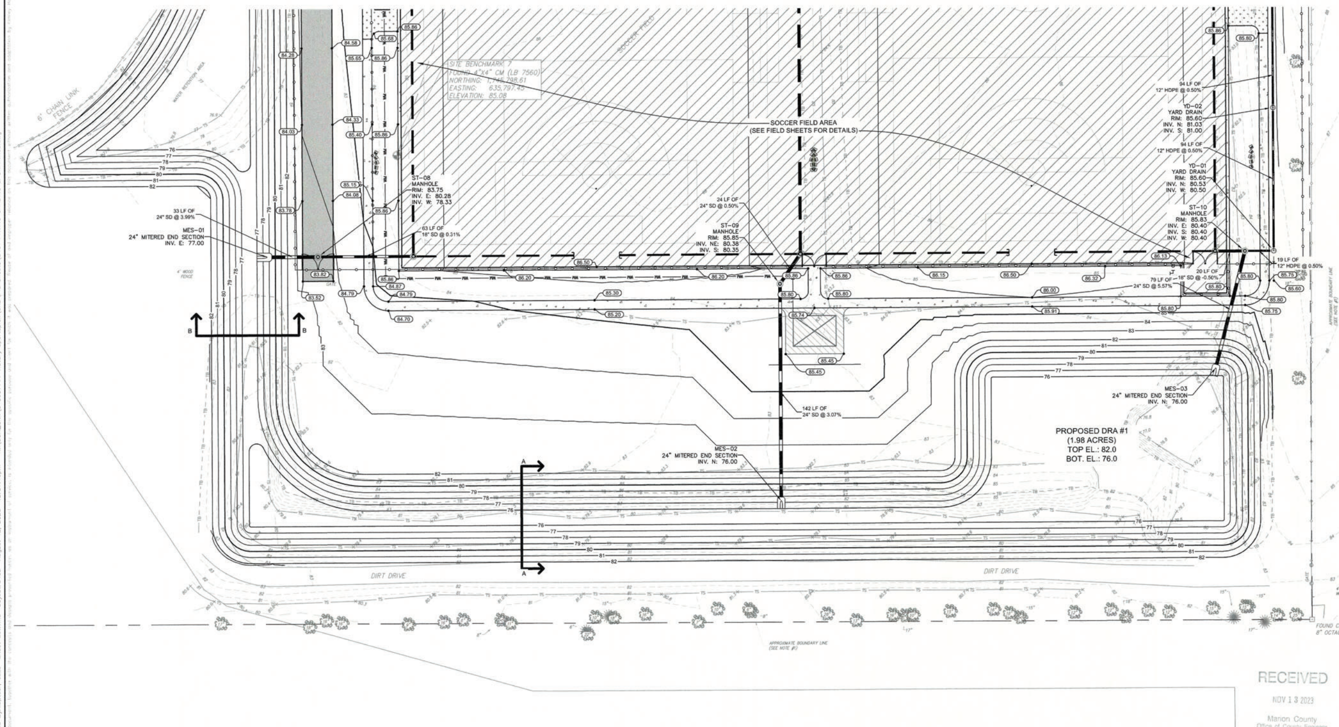
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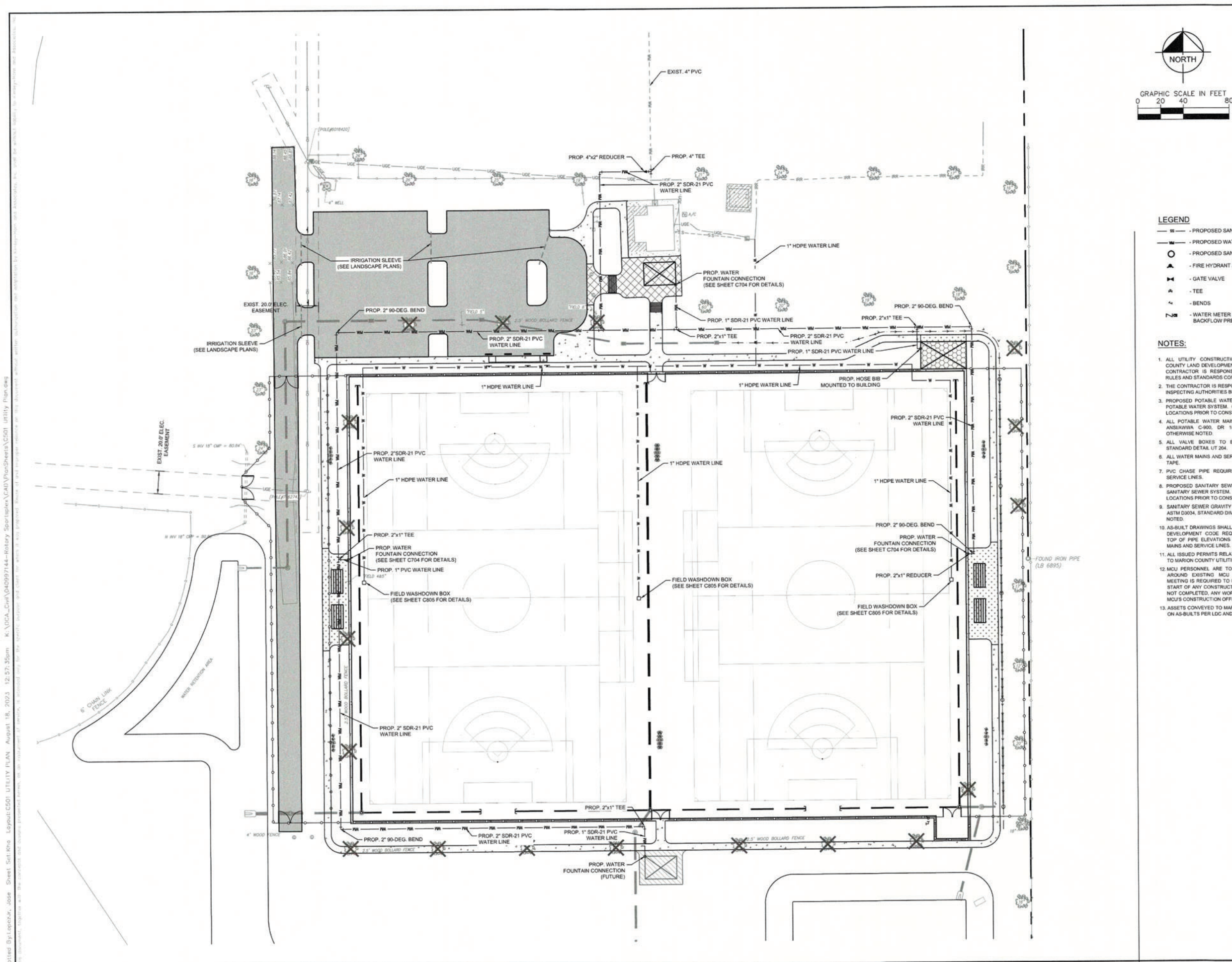
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KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

PAVING, GRADING, & DRAINAGE PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C402



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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LEGEND

- SS — PROPOSED SANITARY SEWER PIPE
- W — PROPOSED WATER LINE
- PROPOSED SANITARY CLEANOUT
- FIRE HYDRANT ASSEMBLY
- GATE VALVE
- TEE
- BENDS
- WATER METER AND REDUCED PRESSURE BACKFLOW PREVENTOR

NOTES:

1. ALL UTILITY CONSTRUCTION SHALL CONFORM WITH THE MARION COUNTY LAND DEVELOPMENT CODE, DETAILS AND SPECIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL RULES AND STANDARDS CONTAINED THEREIN.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER NOTIFICATION OF INSPECTING AUTHORITIES BEFORE AND DURING CONSTRUCTION.
3. PROPOSED POTABLE WATER SYSTEM TO CONNECT TO THE EXISTING POTABLE WATER SYSTEM. CONTRACTOR TO LOCATE AND VERIFY TIE IN LOCATIONS PRIOR TO CONSTRUCTION.
4. ALL POTABLE WATER MAINS SHALL BE POLYVINYL CHLORIDE (PVC), ANSI/AWWA C-900, DR 18, 150 PSI PRESSURE RATING, UNLESS OTHERWISE NOTED.
5. ALL VALVE BOXES TO BE CONSTRUCTED PER MARION COUNTY STANDARD DETAIL UT 204.
6. ALL WATER MAINS AND SERVICE LINES REQUIRE LOCATE WIRE AND DIG TAPE.
7. PVC CHASE PIPE REQUIRED AT ALL ROAD CROSSINGS OF WATER SERVICE LINES.
8. PROPOSED SANITARY SEWER SYSTEM TO CONNECT TO THE EXISTING SANITARY SEWER SYSTEM. CONTRACTOR TO LOCATE AND VERIFY TIE IN LOCATIONS PRIOR TO CONSTRUCTION.
9. SANITARY SEWER GRAVITY MAIN SHALL BE POLYVINYL CHLORIDE (PVC), ASTM D3034, STANDARD DIMENSION RATIO (SDR) 26, UNLESS OTHERWISE NOTED.
10. AS-BUILT DRAWINGS SHALL CONFORM WITH THE MARION COUNTY LAND DEVELOPMENT CODE REQUIREMENTS. AS-BUILT DRAWINGS REQUIRE TOP OF PIPE ELEVATIONS MEASURED EVERY 50 FEET ON ALL WATER MAINS AND SERVICE LINES.
11. ALL ISSUED PERMITS RELATED TO THIS PROJECT SHALL BE SUBMITTED TO MARION COUNTY UTILITIES.
12. MCU PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCU INFRASTRUCTURE. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE-CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED. TO SCHEDULE, CONTACT MCU'S CONSTRUCTION OFFICER AT 352-307-6163
13. ASSETS CONVEYED TO MARION COUNTY UTILITIES SHALL BE IDENTIFIED ON AS-BUILTS PER LDC AND SHALL BE IN NAD83W FORMAT.

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LICENSED PROFESSIONAL
ANTONIO LOPEZ JR. No. 88048 STATE OF FLORIDA PROFESSIONAL ENGINEER

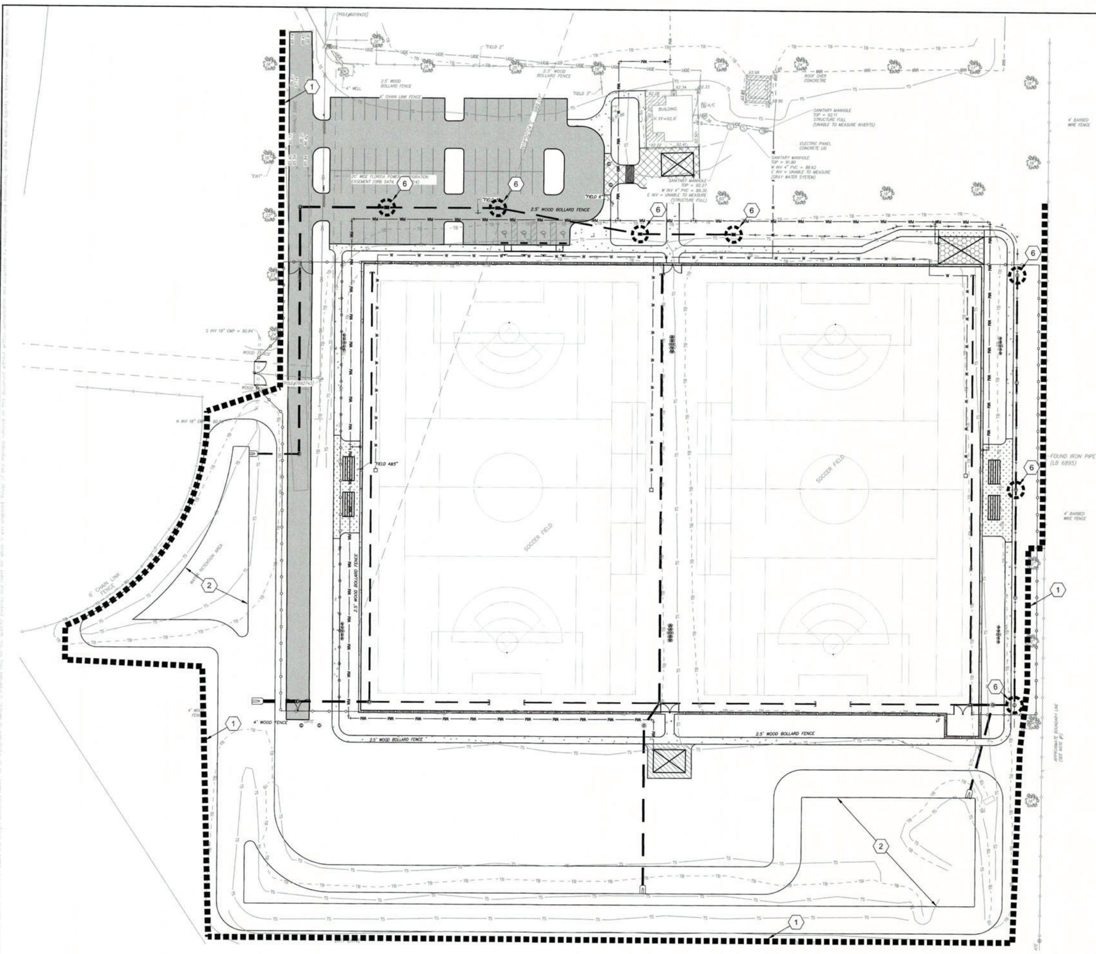
KHA PROJECT	040997144
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UTILITY PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C501

RECEIVED
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Marion County
Office of County Engineer



NORTH

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0 20 40 80

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
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LEGEND

(hexagon) - SEE SHEET C603 FOR DETAILS

NOTES:

1. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASH-OUT, CHEMICALS, LITTER AND SANITARY WASTE, ARE PROPERLY CONTROLLED WHILE ON-SITE AND TRANSPORTED AND DISPOSED OF (OFF-SITE) IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO WASTE MATERIALS OF ANY KIND ARE PERMITTED TO BE BURIED ON-SITE OR DISCHARGED TO SURFACE WATERS OF THE STATE OR TO THE COUNTY'S STORM WATER SYSTEM.

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JOSE ANTONIO LOPEZ, JR. LICENSE No. 86486 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT	040997144
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EROSION CONTROL PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

SHEET NUMBER
C601

TIMING OF SEDIMENT - CONTROL PRACTICES:

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH- DISTURBING ACTIVITY.

SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.

STABILIZATION OF NON STRUCTURAL PRACTICES:

CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN FOURTEEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FORTY-FIVE DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SEDIMENT BARRIERS:

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS.

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

INLET PROTECTION:

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

MAINTENANCE:

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

STOCKPILES:

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES. AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

PERMANENT VEGETATION:

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

CONSTRUCTION ACCESS ROUTES:

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

INSPECTION SCHEDULE:

1. DIVERSION SWALE AND STRUCTURAL PROTECTION - INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
2. INLET PROTECTION - INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
3. VEGETATIVE PLANTING - INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

CONSTRUCTION SEQUENCE:

1. INSTALL SEDIMENT CONTROL MEASURES
2. PERFORM DEMOLITION ACTIVITIES.
3. STABILIZE SITE WITH TEMPORARY VEGETATION AS NEEDED.
4. PERFORM UNDERGROUND UTILITY CONSTRUCTION ACTIVITIES.
5. CONSTRUCT SITE IMPROVEMENTS.
6. PERFORM FINAL GRADING.
7. INSTALL PERMANENT VEGETATION.
8. PERFORM CONTINUING MAINTENANCE THROUGHOUT ALL CONSTRUCTION OPERATIONS.

DITCH BARRIERS:

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.

THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE:

STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

CONTRACTOR SHALL PERIODICALLY SWEEP EXISTING ON-SITE PAVED SURFACES AS WELL AS ABUTTING CITY STREETS, COUNTY ROADS AND STATE HIGHWAYS (AS APPROPRIATE FOR THE PARTICULAR PROJECT) TO KEEP THOSE SURFACES IN A SUBSTANTIALLY SEDIMENT-FREE CONDITION. SWEEPING SHALL BE DONE ON A PERIODIC, AS-NEEDED BASIS THROUGHOUT THE WORK WEEK INCLUDING, MOST IMPORTANTLY, AFTER EVERY RAIN EVENT AND EVERY FRIDAY AFTERNOON PRIOR TO CEASING WORK FOR THE WEEK.

SEDIMENT FENCE:

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
9. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

ADDITIONAL MEASURES:

THIS PLAN AND NARRATIVE REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES, IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT REQUIREMENTS.

EROSION AND SEDIMENT CONTROL NARRATIVE

PLAN DESIGNER:	KIMLEY-HORN AND ASSOCIATES INC. 1700 S.E. 17th STREET., SUITE 200 OCALA, FLORIDA 34471 PHONE: 352-438-3000
OWNER/ DEVELOPER:	STATE OF FLORIDA INTERNAL IMPROVEMENT TRUST FUND 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399 (850) 245-2555
ADJACENT AREAS:	NORTH: VACANT LAND (A-1, ZONING) SOUTH: PUD EAST: INTERSTATE 75/(B-4, ZONING) WEST: FUTURE SW 20TH AVENUE ROAD RIGHT-OF-WAY
EROSION CONTROL MEASURE:	EROSION AND SITE RUNOFF WILL BE CONTROLLED BY THE USE OF SEDIMENT FENCE AND STABILIZED VEGETATION WHERE NEEDED.
SITE CONTACT:	JIM COUILLARD MARION COUNTY PARKS & RECREATION 111 S.E. 25TH AVE. OCALA, FL 34471 PHONE: 352-671-8560

POLLUTION PREVENTION:

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM IS REGULATED THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). IF YOUR CONSTRUCTION ACTIVITY MEETS THE FOLLOWING CRITERIA:

1. CONTRIBUTES STORM WATER DISCHARGE TO SURFACE WATERS OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); AND/OR
2. DISTURBS ONE OR MORE ACRES OF LAND INCLUDING LESS THAN ONE ACRE IF ACTIVITY IS PART OF A LARGE COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL MEET OR EXCEED A ONE ACRE THRESHOLD. DISTURBANCE INCLUDES CLEARING, GRADING AND EXCAVATING. THEN YOU WILL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). FOR MORE INFORMATION PLEASE VISIT FDEP'S WEBSITE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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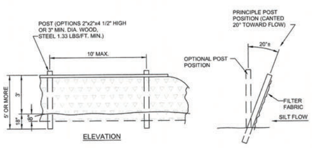
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Marion County
Office of County Engineer

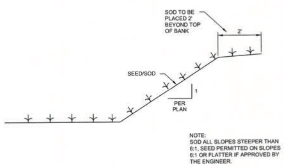
SHEET NUMBER
C602



TYPICAL SILT FENCE
N.T.S.

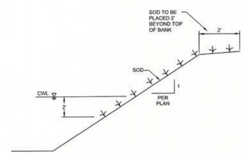
FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 FDOT SPECIFICATIONS)

FIGURE 1



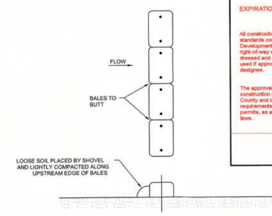
TYPICAL DRY DRAINAGE RETENTION AREA SECTION
N.T.S.

FIGURE 2



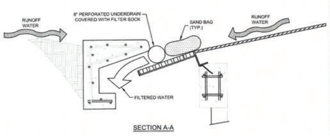
TYPICAL WET RETENTION/DETENTION POND SECTION
N.T.S.

FIGURE 3

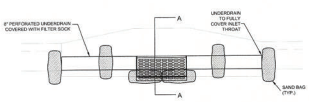


TYPICAL DITCH BARRIER
N.T.S.

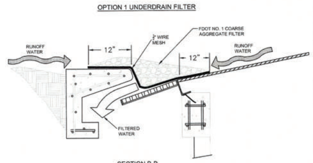
FIGURE 4



SECTION A-A

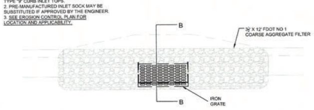


OPTION 1 UNDERDRAIN FILTER



SECTION B-B

NOTES:
1. DIMENSIONS OF SEDIMENT FILTER DETAILS MAY BE ADJUSTED FOR TYPE "9" CURB INLET TOPS.
2. PRE-MANUFACTURED INLET SOCK MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
3. SEE EROSION CONTROL PLAN FOR LOCATION AND APPLICABILITY.

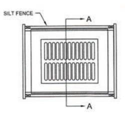


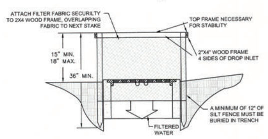
OPTION 2 GRAVEL AND WIRE MESH

CURB INLET SEDIMENT FILTER DETAIL
N.T.S.

FIGURE 5

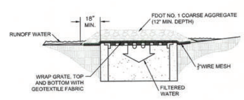
NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL NEARLY LEVEL DRAINAGE ARES. (LESS THAN 5%).
2. USE 2"X4" WOOD OR EQUIVALENT METAL STAKES (3 FT. MIN. LENGTH).
3. INSTALL 2"X4" WOOD FRAME TO INSURE STABILITY.
4. SEE EROSION CONTROL PLAN FOR LOCATIONS AND APPLICABILITY.





SECTION A-A

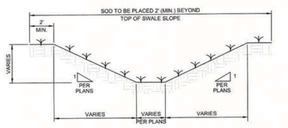
OPTION 1 SILT FENCE BARRIER



OPTION 2 GRAVEL AND WIRE MESH FILTER

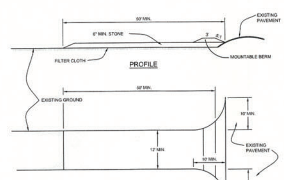
DROP INLET SEDIMENT FILTER DETAIL
N.T.S.

FIGURE 6



TYPICAL SWALE SECTION
N.T.S.

FIGURE 7



STABILIZED CONSTRUCTION ENTRANCE
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

FIGURE 8

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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No.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION	-	-

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

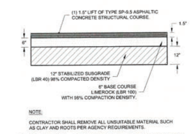
KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KEB
CHECKED BY MHB

EROSION CONTROL DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C603

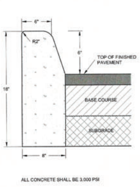
RECEIVED
NOV 13 2023
Marion County
Office of County Engineer



NOTE:

CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL SUCH AS CLAY AND ROOTS PER AGENCY REQUIREMENTS.

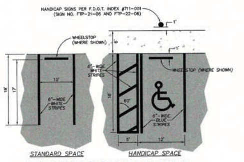
TYPICAL STANDARD DUTY PAVEMENT SECTION



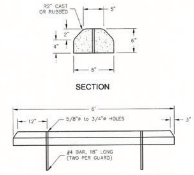
ALL CONCRETE SHALL BE 3,000 PSI

TYPE "D" CURB

PGKH22A.DWG N.T.S.

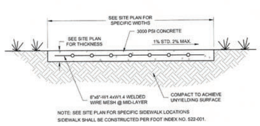


PARKING SPACE DETAILS



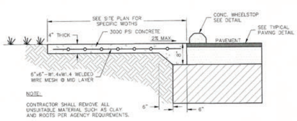
CONCRETE WHEEL STOP

PGKH10A.DWG N.T.S.



NOTE: SEE SITE PLAN FOR SPECIFIC SIDEWALK LOCATIONS
SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX NO. 522-001.

TYPICAL SIDEWALK SECTION

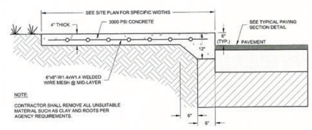


NOTE:

CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL SUCH AS CLAY AND ROOTS PER AGENCY REQUIREMENTS.

FLUSH SIDEWALK AND PAVEMENT SECTION

PGKH40A.DWG N.T.S.

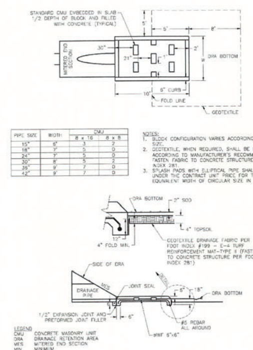


NOTE:

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THICKENED EDGE SIDEWALK AND PAVEMENT SECTION

N.T.S.



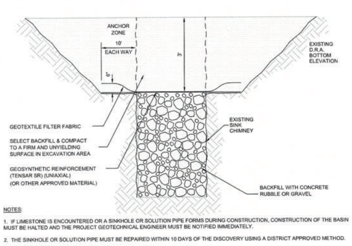
PIPE SIZE	WIDTH	CMU 8 x 16	CMU 8 x 8
15"	6'	3	2
18"	7'	5	0
24"	7'	5	0
30"	8'	5	2
36"	9'	7	0
42"	9'	7	0

NOTES:
1. BLOCK CONFIGURATION VARIES ACCORDING TO PIPE SIZE.
2. GEOTEXTILE, WHEN REQUIRED, SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. FASTEN FABRIC TO CONCRETE STRUCTURE PER FDOT INDEX 281.
3. SPLASH PADS WITH ELLIPTICAL PIPE SHALL BE PAID UNDER THE CONTRACT UNIT PRICE FOR THE EQUIVALENT WIDTH OF CIRCULAR SIZE IN TABLE.

LEGEND
CMU CONCRETE MASONRY UNIT
DRA DRAINAGE RETENTION AREA
MES MITERED END SECTION
MIN MINIMUM

MITERED END SECTION & SPLASHPAD DETAIL

NOT TO SCALE



NOTES:

1. IF LIMESTONE IS ENCOUNTERED OR A SINKHOLE OR SOLUTION PIPE FORMS DURING CONSTRUCTION, CONSTRUCTION OF THE BASIN MUST BE HALTED AND THE PROJECT GEOTECHNICAL ENGINEER MUST BE NOTIFIED IMMEDIATELY.
2. THE SINKHOLE OR SOLUTION PIPE MUST BE REPAIRED WITHIN 10 DAYS OF THE DISCOVERY USING A DISTRICT APPROVED METHOD.
3. THE STORMWATER SYSTEM MUST BE INSPECTED MONTHLY FOR THE OCCURRENCE OF SINKHOLES OR SOLUTION PIPES.

TYPICAL SINK CHIMNEY REPAIR DETAIL

N.T.S.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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No.	REVISIONS	DATE	BY
△	NOT FOR CONSTRUCTION	-	-

Kimley»Horn
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1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

JOSE ANTONIO LOPEZ JR. LICENSE No. 90546 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 10/02/2023

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

SITE DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C701

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

Plotted By: Lopez Jr., Jose Sheet Set: Kho Layout: C701 SITE DETAILS August 18, 2023 12:58:10pm K:\OCA_Civil\040997144- Rotary Sportsplex\CAD\PlanSheets\C701 Site Details.dwg

SHEET INTENTIALLY LEFT BLANK
NO LONGER NEEDED & REMOVED FROM SHEET INDEX

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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No.	REVISIONS	BY
1	NOT FOR CONSTRUCTION	

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PHONE: (352) 438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 048287144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

ROTARY SPORTSPLEX
PREPARED FOR MARION COUNTY
MARION COUNTY FLORIDA

SITE DETAILS

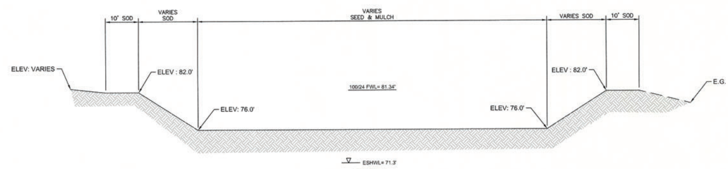
SHEET NUMBER
C702

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

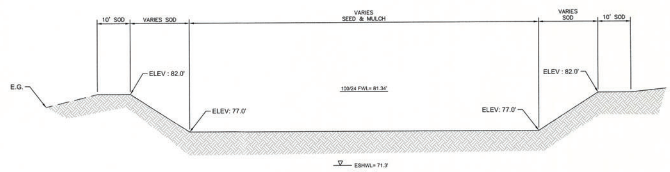
APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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DRA-1
SECTION A-A
NOT TO SCALE



DRA-1
SECTION B-B
NOT TO SCALE

NOTES:

1. STORMWATER RETENTION POND TLP-01, IS DESIGNED TO INFILTRATE STORMWATER. THE POND IS SUSCEPTIBLE TO CLOGGING FROM CONSTRUCTION SEDIMENTS. THEREFORE, REQUIRES A SPECIAL EXCAVATION PROCEDURE AS FOLLOWS:
   a) INITIALLY EXCAVATE RETENTION POND TO AN ELEVATION THAT IS APPROXIMATELY 1 FOOT HIGHER THAN THE FINAL POND BOTTOM ELEVATION.
   b) AFTER THE DRAINAGE AREA CONTRIBUTING TO THE POND IS STABILIZED, EXCAVATE THE REMAINING INTERIOR SIDE SLOPES AND POND BOTTOM TO THE SPECIFIED ELEVATION. THIS SOIL MUST BE REMOVED IN A MANNER TO ENSURE THAT THE SILT, CLAY, ORGANIC AND OTHER FINE SEDIMENTS THAT HAVE WASHED INTO THE POND DURING CONSTRUCTION ARE REMOVED.
   c) FINISH GRADE POND SLOPES AND SOD ALL DISTURBED AREAS.
2. SHOULD ANY LIMEROCK BE ENCOUNTERED, SEE TYPICAL SINK CHIMNEY REPAIR DETAIL ON SHEET C701.

DRAINAGE SUMMARY:
ALL STORMWATER DRAINAGE RUNOFF FROM THE TRAILHEAD LOGISTICS PARK PROJECT WILL BE DIRECTED TO POND TLP-01. TLP-01, IS A DRY RETENTION FACILITY THAT WILL TREAT AND RETAIN ALL STORMWATER RUNOFF. RECOVERY WILL BE PROVIDED THROUGH SOIL PERCOLATION AND NO DISCHARGE IS PROPOSED. THE STORMWATER SYSTEM WILL BE PRIVATELY OWNED AND MAINTAINED. THE STORMWATER SYSTEM SHALL OPERATE UNDER SWFWMD ERP NO. 43045180.000.

OPERATION AND MAINTENANCE PROCEDURES AND SCHEDULE SHALL BE IN ACCORDANCE WITH THE "STORMWATER SYSTEM OPERATION AND MAINTENANCE MANUAL FOR THE ROTARY SPORTSPLEX" PREPARED FOR MARION COUNTY, BY KIMLEY-HORN AND ASSOCIATES, INC.

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Marion County
Office of County Engineer

DRA-1 STAGE STORAGE TABLE

STAGE (FT)	AREA (FT^2)	AREA (AC)	VOLUME (AC-FT)
76.0	27657	0.63	0.00
77.0	37345	0.86	0.75
78.0	46873	1.08	1.71
79.0	56557	1.30	2.90
80.0	66344	1.52	4.31
81.0	76232	1.75	5.95
82.0	86220	1.98	7.81

No.	REVISIONS	DATE	BY
⚠	NOT FOR CONSTRUCTION	-	-

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1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

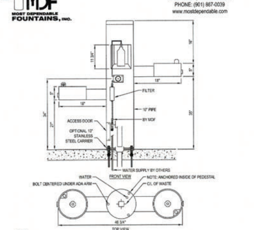
POND NOTES & CROSS SECTIONS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C703

Plotted By:Lopez,Jr. Jose Sheet Set:Kha Layout:C703 CROSS SECTIONS August 18, 2023 12:58:17pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C701 Site Details.dwg

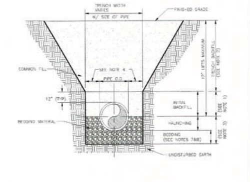
MOST DEPENDABLE FOUNTAINS, INC.
5705 COMMANDER DR. P.O. BOX 587
ARLINGTON, TN 38002-0587
PHONE: (901) 867-0039
www.mostdependable.com



NOTES:
1. OPTIONAL STAINLESS STEEL SURFACE CARRIER RECOMMENDED.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-17.8.

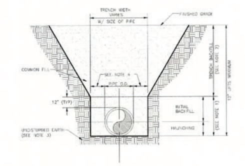
MODEL 10145SM
10145SM SHOWN WITH OPTIONAL 10" SS SURFACE CARRIER

3354-17 | REVISION DATE 09/30/2022



NOTES:
1. INITIAL BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/17/2018 / REVISION # 1	TYPE "A" BEDDING AND TRENCHING	7.3.2 / UT 102



NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY MCU.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/17/2018 / REVISION # 1	TYPE "B" BEDDING AND TRENCHING	7.3.2 / UT 103

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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No.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION	-	-

Kimley»Horn
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1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471
PHONE: 352-438-3000
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
FLORIDA LICENSE NUMBER
DATE:

KHA PROJECT	040997144
DATE	AUGUST 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

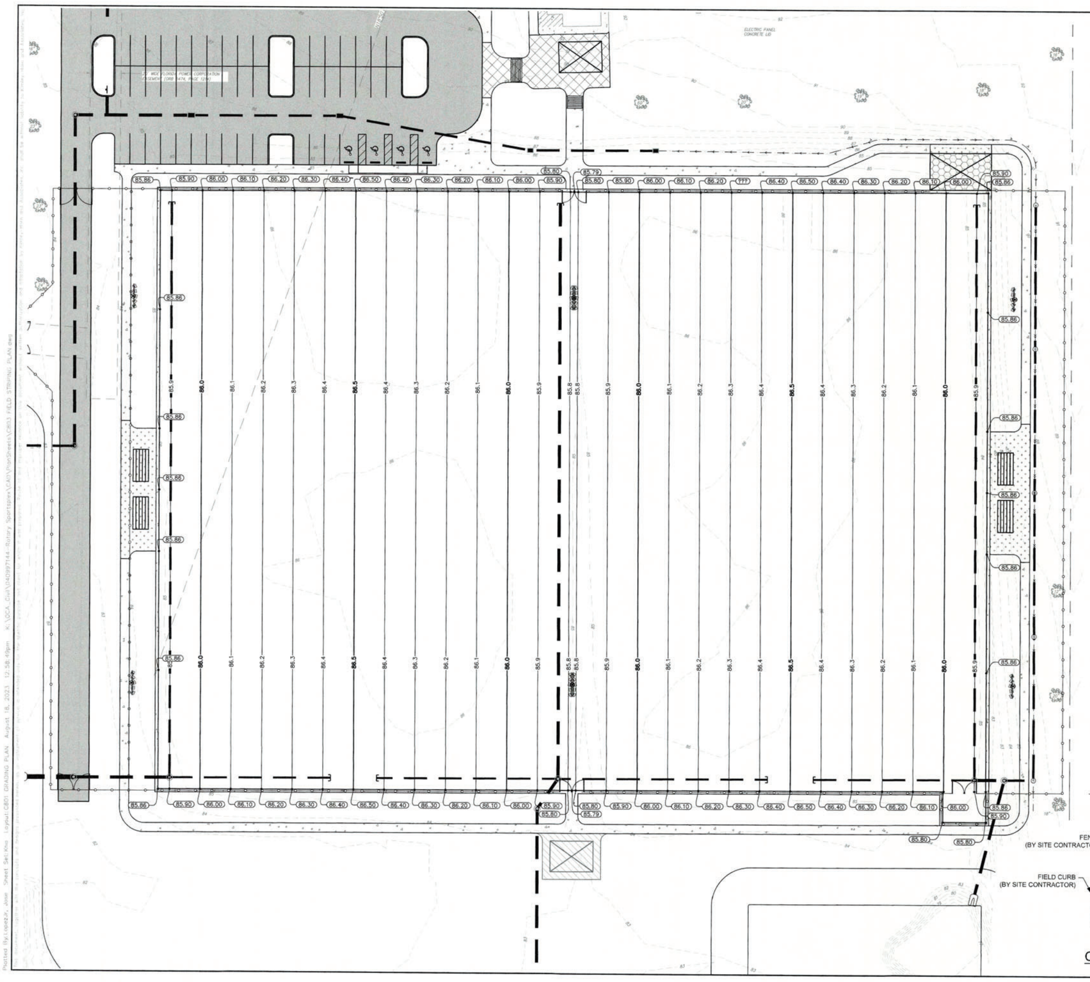
UTILITY DETAILS

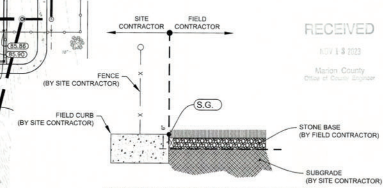
ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C704

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NOV 13 2023
Marion County
Office of County Engineer

Plotted By: LopezJr, Jose Sheet Set: Kha Layout: C704 UTILITY DETAILS August 18, 2023 12:58:27pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C702 Utility Details.dwg





CONTRACTOR WORK LIMITS DETAIL

N.T.S.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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No.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION	-	-

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JOSE ANTONIO LOPEZ, JR., P.E. — LICENSE No. 86446 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

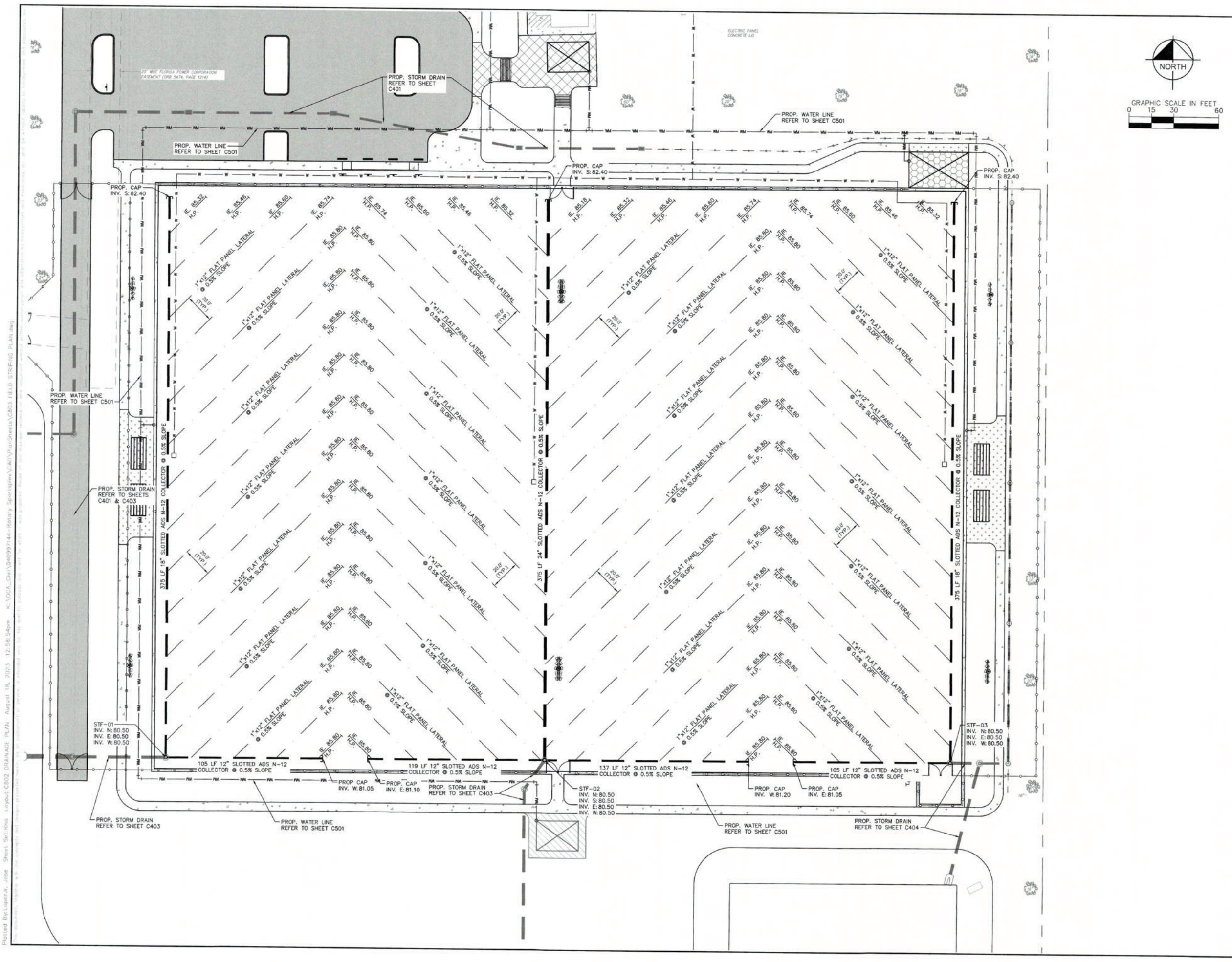
KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

FIELD GRADING PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

SHEET NUMBER
C801



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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JOSE ANTONIO LOPEZ JR. LICENSE No. 86346 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

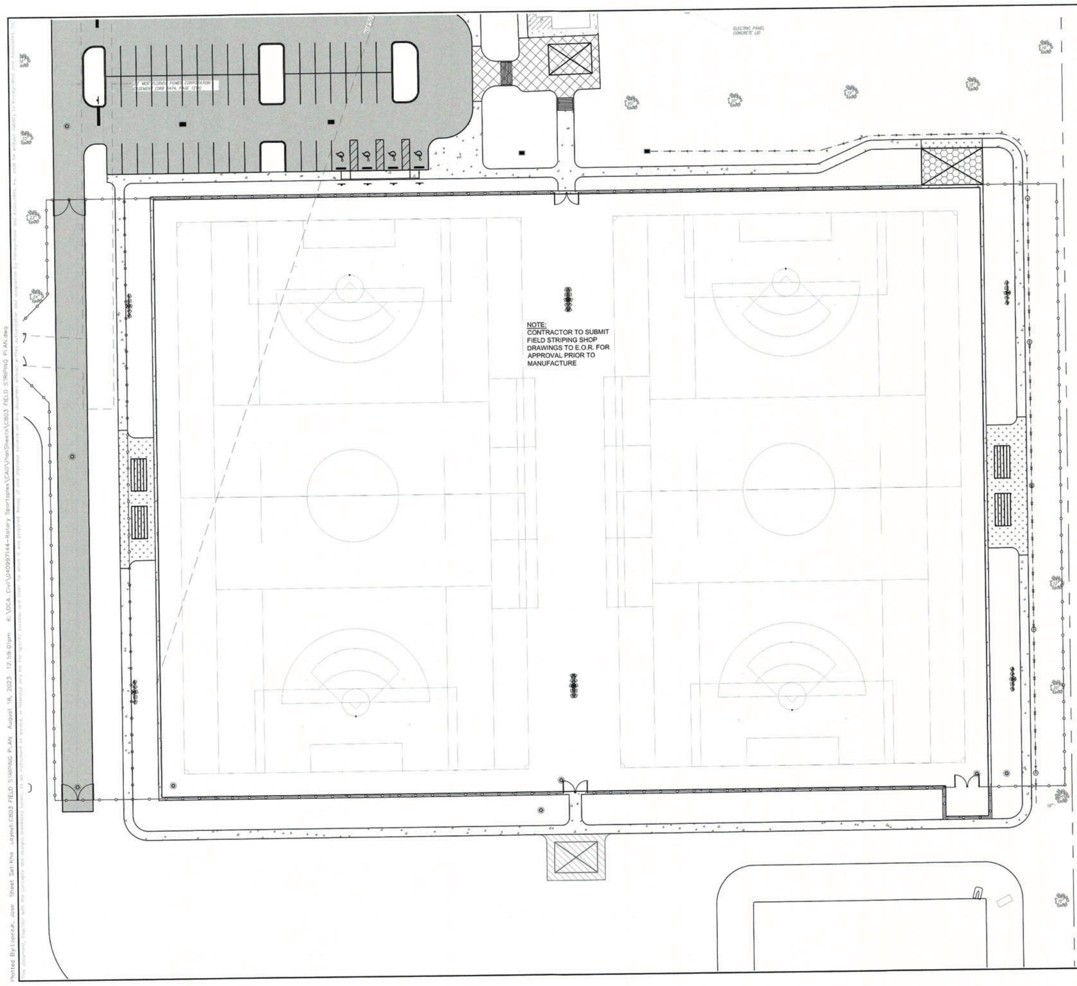
FIELD DRAINAGE PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C802

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Marion County
Office of County Engineer

Plotted By:LopezJr, Jose Sheet Set:Kha Layout:C803 FIELD STRIPING PLAN August 18, 2023 12:59:01pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C803 FIELD STRIPING PLAN.dwg



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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JOSE ANTONIO LOPEZ JR. LICENSE No. [illegible] STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE:

KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

FIELD STRIPING PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

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NOV 18 2023
Marion County
Office of County Engineer

SHEET NUMBER
C803

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NO LONGER NEEDED & REMOVED FROM SHEET INDEX

NORTH

GRAPHIC SCALE IN FEET
0 ## ## ##

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
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KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
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LACROSS STRIPING PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C804

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Marion County
Office of County Engineer

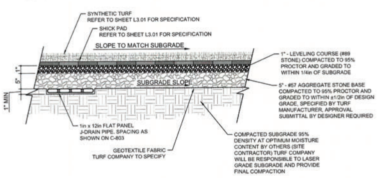
Plotted By: Lopez Jr., Jose Sheet Set: Kha Layout: C804 LACROSS STRIPING PLAN August 18, 2023 12:59:04pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C803 FIELD STRIPING PLAN.dwg

FIELD DRAINAGE NOTES:

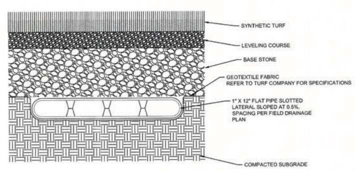
1. AFTER EXCAVATION OF EXISTING SOIL TO THE PROPER ELEVATIONS REQUIRED THE NEW SUBGRADE WILL BE SHAPED AND COMPACTED TO 95% DENSITY WITH A 0.5% SLOPE TO ALLOW FOR DRAINAGE.
2. A NEW CONCRETE CURB AND NAILER WILL BE INSTALLED AROUND THE PERIMETER TO PROVIDE A SECURE EDGE FOR FASTENING THE SYNTHETIC TURF. IN ALL CASES THE NAILER AND STONE ARE AT THE SAME ELEVATION.
3. A GEOTEXTILE FILTER FABRIC OR IMPERMEABLE LINER WILL BE PLACED OVER THE SUBGRADE AND COMPOSITE DRAINS WILL BE INSTALLED AT 20 FEET ON CENTER AT A 45 DEGREE ANGLE TO THE FIELD. REFER TO THE FIELD DRAINAGE PLAN.
4. THE COMPOSITE DRAINS WILL DRAIN TO A PERIMETER COLLECTOR WHICH WILL BE CONNECTED TO THE EXISTING DRAINAGE SYSTEM. REFER TO THE FIELD DRAINAGE PLAN AND THE COMPOSITE DRAIN DETAIL.
5. CLEAN WASHED STONE WILL BE PLACED OVER THE COMPOSITE DRAINS AND THE PERIMETER COLLECTORS AND FINE GRADED FOR A FIELD WITH A 0.5% SLOPE.
6. A 1" LAYER (MAX. DEPTH) OF FINISH STONE WILL BE FINE GRADED OVER THE BASE STONE FOR A FINISH SLOPE OF 0.5%.
7. SYNTHETIC TURF WILL BE INSTALLED OVER THE STONE BASE AND THE RUBBER INFILL WILL BE FLUSH WITH THE TOP OF THE CONCRETE CURB.

TURF NOTES:

1. FOR SUBGRADE INFORMATION REFER TO SHEET C-802 FINISH GRADE SHALL BE CROWNED. SLOPE SHALL MATCH THE SLOPE OF THE SUBGRADE
2. CONTRACTOR TO SUBMIT PRODUCT DATA FOR ALL MATERIAL REQUIRED TO CONSTRUCT FIELD

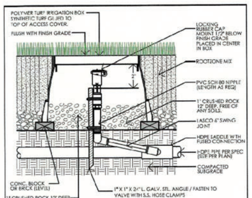


SYNTHETIC TURF PROFILE
N.T.S.



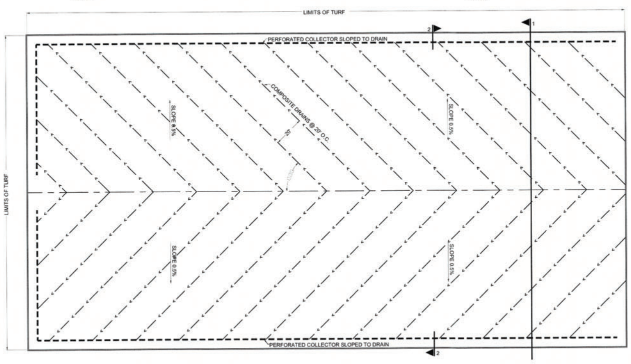
NOTES:
1. HIGH POINT INVERT OF THE LATERAL IS NOTED ON FIELD DRAINAGE PLAN SLOPE AT 0.5% TO COLLECTOR. DEPTH OF LATERAL WILL VARY FROM HIGH POINT TO THE COLLECTOR.
2. TOP OF FLAT PIPE WILL BE FLUSH WITH COMPACTED SUBGRADE AS SHOWN

1"x12" FLAT PANEL LATERAL
N.T.S.

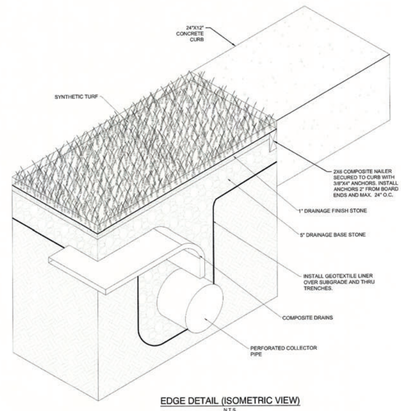


NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. "NO CONCRETE SHALL BE INSTALLED AROUND SWING JOINT".
3. REFER TO IRRIGATION PLAN FOR LOCATION.

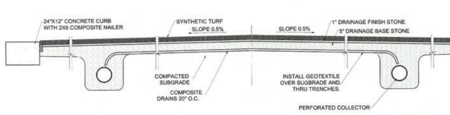
FIELD WASHDOWN & QUICK CONNECT DETAIL
N.T.S.



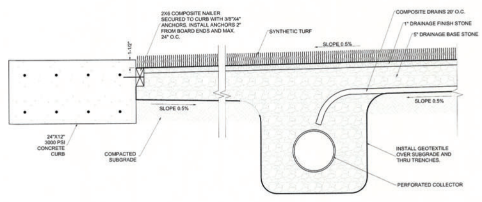
DRAINAGE LAYOUT
N.T.S.



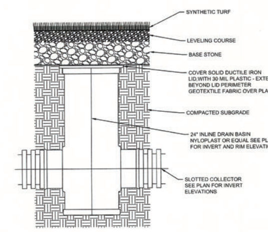
EDGE DETAIL (ISOMETRIC VIEW)
N.T.S.



SECTION-1 THRU FIELD
N.T.S



SECTION-2 TYPICAL EDGE DETAIL
N.T.S.



SYN. TURF STORMWATER INLINE DRAIN BASIN
N.T.S.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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Office of County Engineer

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JOSE ANTONIO LOPEZ JR. — STATE OF FLORIDA PROFESSIONAL ENGINEER — LICENSE No. 90146

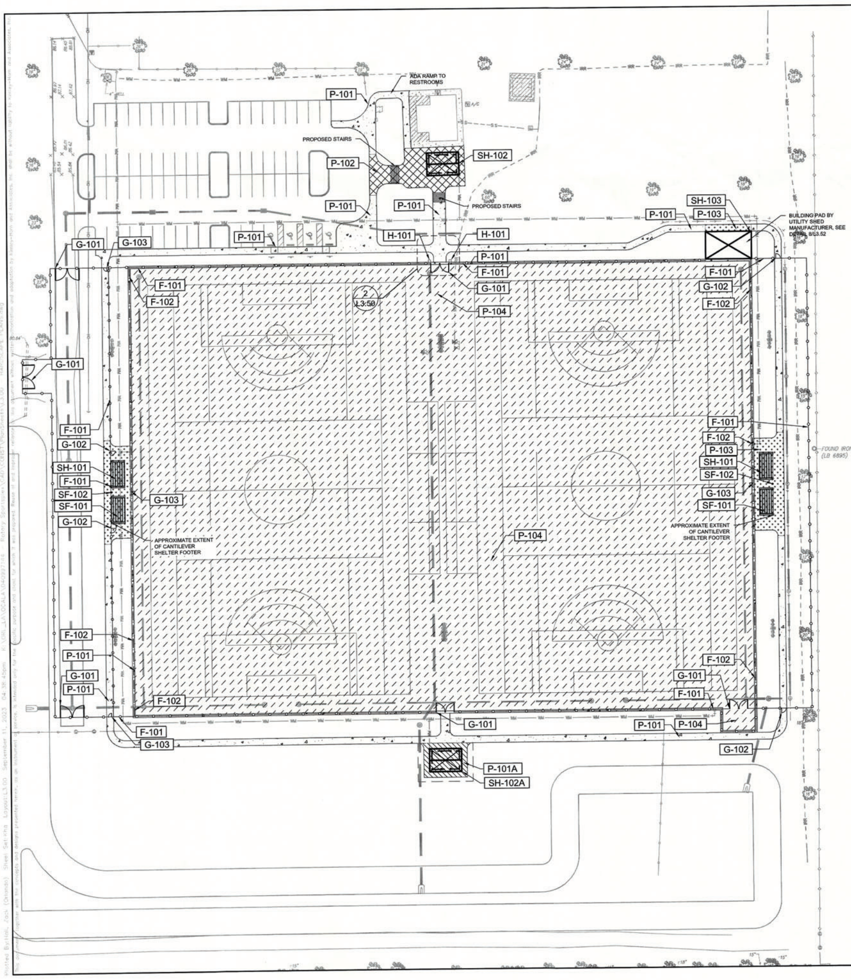
KHA PROJECT 040997144
DATE AUGUST 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

FIELD DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FLORIDA

SHEET NUMBER
C805

Plotted By: LopezJr, Jose Sheet Set: Kha Layout: C805 FIELD DETAILS August 18, 2023 12:59:20pm K:\OCA_Civil\040997144-Rotary Sportsplex\CAD\PlanSheets\C806 Field Details.dwg



REFERENCE NOTES SCHEDULE

SYMBOL	FENCE DESCRIPTION	QTY	DETAIL
F-101	8' HT FENCE	2,530 LF	2/L3.51
F-102	3' HT FENCE	785 LF	1/L3.51

SYMBOL	GATE DESCRIPTION	QTY	DETAIL
G-101	8' HT DOUBLE PEDESTRIAN GATE	6	3/L3.51
G-102	8' HT SINGLE PEDESTRIAN GATE	4	2/L3.51
G-103	3' HT SINGLE PEDESTRIAN GATE	4	1/L3.51
G-104	8' HT DOUBLE VEHICULAR GATE	3	4/L3.51

SYMBOL	HARDSCAPE DESCRIPTION	QTY	DETAIL
H-101	DECORATIVE MONUMENT COLUMNS	2	3/L3.50

SYMBOL	PAVING DESCRIPTION	QTY	DETAIL
P-101	PAVING FIELD 1	17,584 SF	SEE CIVIL PLANS
P-101A	PAVING FIELD 1 - FUTURE	1,151 SF	SEE CIVIL PLANS
P-102	PAVING FEILD 2	2,564 SF	2/L3.50
P-103	PAVING FIELD 3	4,302 SF	SEE CIVIL PLANS
P-104	ARTIFICIAL TURF	211,160 SF	/

SYMBOL	SITE FURNISHING DESCRIPTION	QTY	DETAIL
SF-101	BLEACHERS	4	1/L3.52
SF-102	DRINKING FOUNTAIN	2	2/L3.52

SYMBOL	SHADE STRUCTURE DESCRIPTION	QTY	DETAIL
SH-101	BLEACHER SHADE STRUCTURE	4	4/L3.52
SH-102	PAVILION	1	3/L3.52
SH-102A	PAVILION - FUTURE	1	3/L3.52
SH-103	UTILITY SHED	1	5/L3.52

SEE FULL SCHEDULE ON SHEET L3.01

DEVELOPMENT REVIEW COMMITTEE
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LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
STATE OF FLORIDA
REGISTERED

KHA PROJECT 040997144
DATE 9/11/2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY NAA
CHECKED BY MSM

OVERALL HARDSCAPE PLAN

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FL

SHEET NUMBER
L3.00

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	M.E.P
	FENCE								
F-101	8' HT FENCE	2,530 LF	2/L3.51	TBD	CHAINLINK FENCE	VINYL COATED, BLACK	8' HT	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	
F-102	3' HT FENCE	785 LF	1/L3.51	TBD	CHAINLINK FENCE	VINYL COATED, BLACK	3' HT	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	
	GATE								
SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	M.E.P
G-101	8' HT DOUBLE PEDESTRIAN GATE	6	3/L3.51	TBD	CHAINLINK DOUBLE GATE	VINYL COATED, BLACK	8' HT, 16' WIDE	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	--
G-102	8' HT SINGLE PEDESTRIAN GATE	4	2/L3.51	TBD	CHAINLINK GATE	VINYL COATED, BLACK	8' HT, 4' W	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	--
G-103	3' HT SINGLE PEDESTRIAN GATE	4	1/L3.51	TBD	CHAINLINK GATE	VINYL COATED, BLACK	3' HT, 4' W	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	--
G-104	8' HT DOUBLE VEHICULAR GATE	3	4/L3.51	TBD	CHAINLINK DOUBLE GATE	VINYL COATED, BLACK	8' HT, 20' WIDE	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	--
	HARDSCAPE								
SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	M.E.P
H-101	DECORATIVE MONUMENT COLUMNS	2	3/L3.50	TBD	CUSTOM, SEE DETAIL	PRECAST CONCRETE AND PAINTED STUCCO	7' HT	SUBMIT SHOP DRAWING FOR APPROVAL	--
	PAVING								
SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	
P-101	PAVING FIELD 1	17,584 SF	SEE CIVIL PLANS	TBD	STANDARD CONCRETE	BROOM FINISH, STANDARD GRAY	4" DEPTH	PROVIDE MOCK UP	
P-101A	PAVING FIELD 1 - FUTURE	1,151 SF	SEE CIVIL PLANS	TBD	STANDARD CONCRETE	BROOM FINISH, STANDARD GRAY	4" DEPTH	PROVIDE MOCK UP	
P-102	PAVING FEILD 2	2,564 SF	2/L3.50	TBD	STANDARD CONCRETE	DECORATIVE SCORING, STANDARD GRAY	4" DEPTH	PROIVDE MOCK UP	
P-103	PAVING FIELD 3	4,302 SF	SEE CIVIL PLANS	TBD	REINFORCED CONCRETE	BROOM FINISH, STANDARD GRAY	6" DEPTH	PROVIDE MOCK UP	
P-104	ARTIFICIAL TURF	211,160 SF	/	ASTRO TURF	LIGA TURF	TURF - FIELD GREEN INFILL - WOOD FIBER SHOCKPAD - BROCKFIL 17	--	OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWING FOR APPROVAL	
	SITE FURNISHING								
SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	M.E.P
SF-101	BLEACHERS	4	1/L3.52	JAYPRO SPORTS	BLCH-521ASGR	ALUMINIUM	21', 5 ROW	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, INSTALL PER MANUFACTURER'S SPECIFICATIONS	--
SF-102	DRINKING FOUNTAIN	2	2/L3.52	MOST DEPENDABLE FOUNTAINS	2440 SMSS W/ HOSE BIBB	TEXTURED BLACK	--	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWING FOR APPROVAL	PROVIDE WATER
	SHADE STRUCTURE								
SYMBOL	DESCRIPTION	QTY	DETAIL	MANUFACTURER	PRODUCT	FINISH/COLOR	SIZE	REMARKS	M.E.P
SH-101	BLEACHER SHADE STRUCTURE	4	4/L3.52	RCP SHELTERS, INC	BLEACHER COVER	METAL ROOF: BRITE RED WOOD LAMINATE: NATURAL 716 POWDER COAT: WHITE	24' WIDTH, 12' HT AT BACK	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWING FOR APPROVAL	--
SH-102	PAVILION	1	3/L3.52	RCP SHELTERS, INC	GABLE ROOF	METAL ROOF: BRITE RED WOOD LAMINATE: NATURAL 716	20'X28'	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	-
SH-102A	PAVILION - FUTURE	1	3/L3.52	RCP BLEACHERS, INC	GABLE ROOF	METAL ROOF: BRITE RED WOOD LAMINATE: NATURAL 716	20'X28'	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWING FOR APPROVAL	--
SH-103	UTILITY SHED	1	5/L3.52	CENTRAL FLORIDA STEEL BUILDINGS AND SUPPLY	STEEL BUILDING WITH STANDARD SIDING (4 ROLL UP GARAGE DOORS, 1 PEDESTRIAN DOOR)	ROOF COLOR: PATRIOT RED SIDE COLOR: ARTIC WHITE TRIM COLOR: PATRIOT RED	40'X20'X10'	OR APPROVED EQUAL, OWNER PURCHASED, CONTRACTOR INSTALLED, SUBMIT SHOP DRAWINGS FOR APPROVAL	PROVIDE ELECTRIC

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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Kimley»Horn

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LICENSED PROFESSIONAL LANDSCAPE ARCHITECT MILTON MESONET LA0001428 STATE OF FLORIDA
DATE 9/11/2023

KHA PROJECT 040997144
DATE 9/11/2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY NAA
CHECKED BY MSM

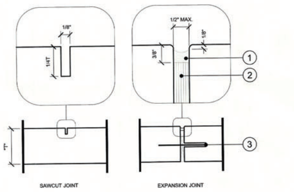
REFERENCE NOTES SCHEDULE

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FL

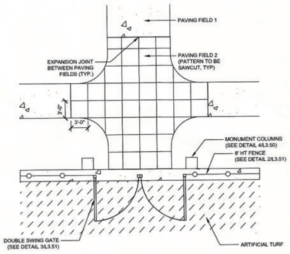
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SHEET NUMBER
L3.01

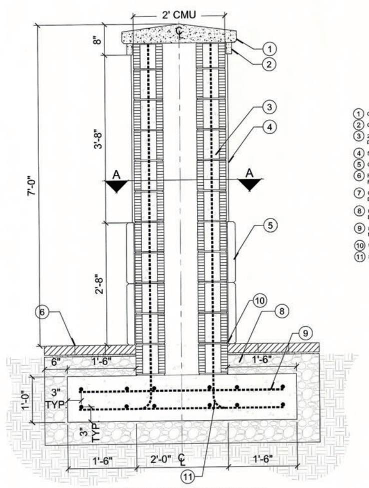
1. JOINT SEALANT
2. NON-EXTRUDED BITUMINOUS - TYPE, RESILIENT FILLER
3. #4 SMOOTH DOWEL @18" O.C. COAT ONE END TO PREVENT BOND



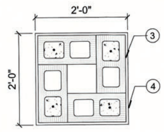
1 CONCRETE PAVING JOINT
1" = 20'



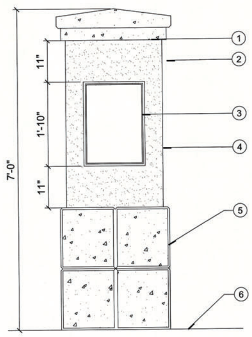
2 SCORED CONCRETE - PATTERN
1/8" = 1'-0"



1. CAST STONE CAP
2. CAST STONE BUILDOUT
3. 24" SQ. CMU COLUMN. SEE STRUCTURAL ENGINEER DRAWINGS FOR REINFORCING.
4. 5/8" STUCCO WITH SAND TEXTURE FINISH
5. CAST STONE COLUMN BASE VENEER
6. FINISH GRADE AT ENTRY PLAZA AREA. SEE HARDSCAPE PLAN FOR MATERIAL AND LOCATION.
7. CONCRETE COLUMN FOOTING. SEE STRUCTURAL ENGINEER DRAWING FOR SIZE, DEPTH, AND REINFORCING.
8. COMPACTED SUBGRADE. SEE STRUCTURAL ENGINEER DRAWING FOR COMPACTION.
9. #5 BARS @12" O.C. EACH WAY TOP AND BOTTOM, PROVIDE A MINIMUM OF 12 LONGITUDINAL BARS AS SHOWN
10. WATERPROOF SEALANT
11. STANDARD ACI HOOKS



A SECTION PLAN



NOTE: EXTEND WALL FOUNDATION 2' BEYOND END OF WALL.

3 MONUMENT COLUMN (DESIGN INTENT ONLY)
NTS

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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No.	REVISIONS	DATE	BY

Kimley»Horn
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LICENSED PROFESSIONAL LANDSCAPE ARCHITECT SCOTT MILTON CONET LA0001428 STATE OF FLORIDA REGISTERED
DATE: 9/11/2023

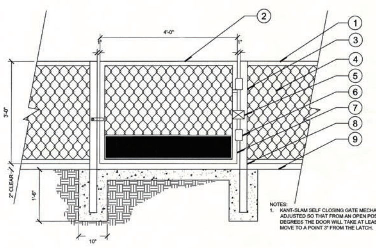
KHA PROJECT	040997144
DATE	9/11/2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	NAA
CHECKED BY	MSM

HARDSCAPE DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FL

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

SHEET NUMBER
L3.50

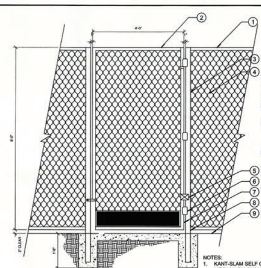


1. 1 1/2" TUBE STEEL RAIL, TOP & BOTTOM
2. TOP OF GATE TO BE LEVEL WITH FENCE
3. 2" SQ. TUBE STEEL POST
4. 1-3/4" - 6 GAUGE CHAINLINK MESH
5. KANT-SLAM SELF CLOSING GATE MECHANISM BY: KANT-SLAM DOOR CHECK CO. 1-800-233-2051
6. (2) SELF CLOSING HINGES (TYP.)
7. 1 1/2" SQ. TUBULAR STEEL GATE FRAME
8. SET POST IN CONC. FOOTING, FOOTING DESIGNED BY OTHERS
9. FINISH GRADE

NOTES:
1. KANT-SLAM SELF CLOSING GATE MECHANISM SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH.

1 3' CHAINLINK FENCE

NTS

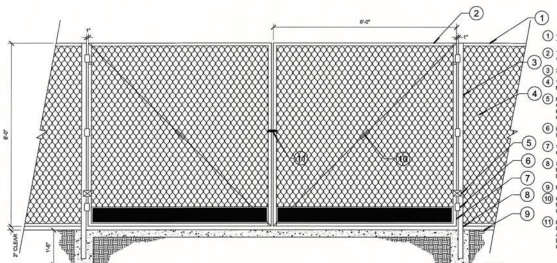


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2 8' CHAINLINK FENCE

1/2" = 1'-0"

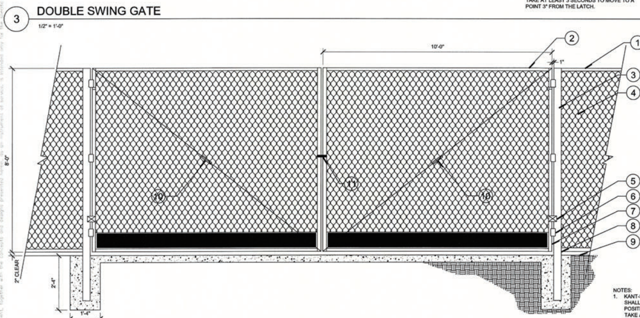


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9. FINISH GRADE
10. GALV. ROD W/ TRUSS AND ROD TIGHTENER, SIZE PER CONTRACTOR
11. LATCH FORK, LOCK KEEPER, LOCK KEEPER GUIDE (USE APPROPRIATE SIZE FOR DOUBLE AND SINGLE GATES)

NOTES:
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3 DOUBLE SWING GATE

1/2" = 1'-0"



1. 1 1/2" TUBE STEEL RAIL, TOP & BOTTOM
2. TOP OF GATE TO BE LEVEL WITH FENCE
3. 4" ROUND TUBE STEEL POST
4. 1-3/4" - 6 GAUGE CHAINLINK MESH
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4 VEHICULAR DOUBLE SWING GATE

1/2" = 1'-0"

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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No.	REVISIONS	DATE	BY

Kimley»Horn

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LICENSED PROFESSIONAL
REGISTERED LANDSCAPE ARCHITECT SCOTT MILTON MINGONET LA0001428 STATE OF FLORIDA
DATE: 9/

KHA PROJECT 040997144
DATE 9/11/2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY NAA
CHECKED BY MSM

HARDSCAPE DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FL

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

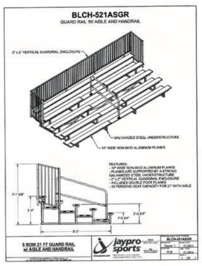
SHEET NUMBER
L3.51

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

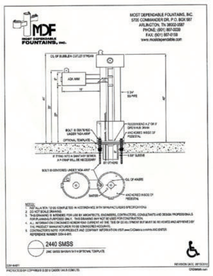
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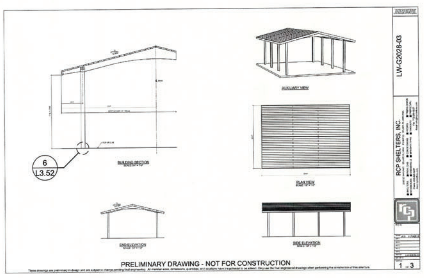


1 BLEACHERS
NTS

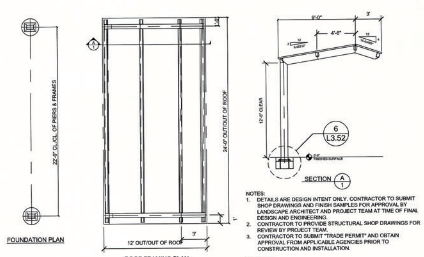


NOTE:
CONTRACTOR TO VERIFY HOSE BIBB OPTION WHEN ORDERING. SUBMIT SHOP DRAWINGS FOR REVIEW.

2 WATER FOUNTAIN W/ HOSE BIBB
NTS



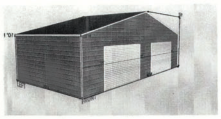
3 PAVILION
NTS



NOTES:
1. DETAILS ARE DESIGN INTENT ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND FINISH SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT AND PROJECT TEAM AT TIME OF FINAL DESIGN AND ENGINEERING.
2. CONTRACTOR TO PROVIDE STRUCTURAL SHOP DRAWINGS FOR REVIEW BY PROJECT TEAM.
3. CONTRACTOR TO SUBMIT "TRADE PERMIT" AND OBTAIN APPROVAL FROM APPLICABLE AGENCIES PRIOR TO CONSTRUCTION AND INSTALLATION.

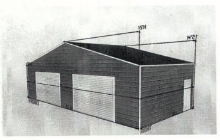
CONTACT
BRYCE COOPER
EMAIL: BRYCE@RCPSHELTERS.COM
PHONE: 772-291-2010

4 BLEACHER SHADE STRUCTURE
NTS

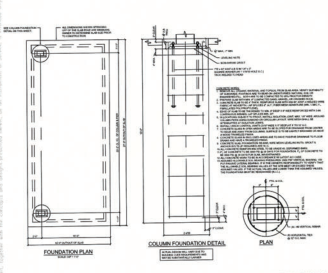


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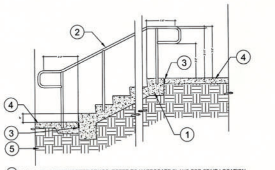
CONTACT:
KELTON BUTLER
EMAIL: KELTON.FRYMYERCD@GMAIL.COM
PHONE: 407-375-2247



5 UTILITY SHED



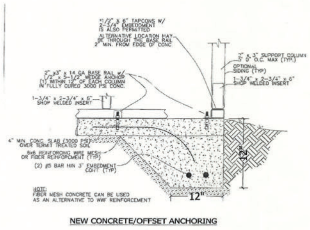
6 BLEACHER SHADE STRUCTURE FOUNDATION DETAIL
1" = 30'



1. CAST IN PLACE CONCRETE STAIRS. REFER TO HARDSCAPE PLANS FOR STAIR LOCATION.
2. 1 1/2" DIA. PIPE HANDRAIL. POWDER COAT PAINT TO MATCH EXISTING HANDRAILS ON SITE.
3. HANDRAIL MOUNTED TO STAIR STRUCTURE AND OR ADJACENT PAVING AREA. CORE DRILL AND SET WITH NON-SHRINK EPOXY GROUT. GROUT COLOR TO MATCH ADJACENT PAVEMENT.
4. ADJACENT PAVEMENT. REFER TO HARDSCAPE PLAN FOR MATERIAL AND LOCATION.
5. COMPACTED SUBGRADE.

NOTES:
1. REFER TO CIVIL PLANS FOR RISER NUMBERS.
2. CONCRETE STEPS TO BE NATURAL GREY WITH LIGHT BROOM FINISH.
3. TREADS TO SLOPE 1% FOR POSITIVE DRAINAGE.
4. ALL STAIR RISERS TO BE EQUAL HEIGHT.

7 TYPICAL STAIR WITH HANDRAIL
3/8" = 1'-0"



NEW CONCRETE/OFFSET ANCHORING

8 UTILITY SHED FOUNDATION
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Kimley»Horn
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LICENSED PROFESSIONAL
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DATE: 9/11/2023

KHA PROJECT 040997144
DATE 9/11/2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY NAA
CHECKED BY MSM

HARDSCAPE DETAILS

ROTARY SPORTSPLEX
PREPARED FOR
MARION COUNTY
MARION COUNTY FL

SHEET NUMBER
L3.52

LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS AS NECESSARY FOR THE INSTALLATION, ESTABLISHMENT, AND MAINTENANCE OF PLANTS AND RELATED MATERIALS AS INDICATED ON THE PLANS, OR AS DIRECTED IN THE FIELD. ALL INCLUDED WORK SHALL BE COMPLETED IN ACCORDANCE TO THESE SPECIFICATIONS.

B. WORK GENERALLY INCLUDES:
1. LOCATE, LAYOUT, AND PREPARE ALL TREE LOCATIONS AND PLANTING AREAS.
2. REMOVE AND PREVENT REGENERATION OF WEEDS.
3. PROVIDE AND INSTALL ALL PLANT MATERIAL AND RELATED MATERIALS.
4. SUPPLY WATER AND APPLYING WATER TO LANDSCAPE AREAS.
5. MAINTAIN PLANTS AND PLANTING BEDS.
6. OTHER RELATED WORK.

C. CONTRACTOR IS RESPONSIBLE FOR:
1. READING AND FOLLOWING THE BID DOCUMENTS.
2. FOLLOWING ALL GOVERNING CODES AND REGULATIONS WHETHER OR NOT STIPULATED.
3. PROVIDING ALL APPLICABLE PERMITS AND FEES.
4. THOROUGH AND TIMELY COMPLETION OF WORK.
5. GUARANTEE OF PLANTS, AND REPLACEMENT AS NECESSARY THROUGH WARRANTY PERIOD.

D. CONTRACTOR SHALL SUBMIT PRODUCT DATA AND SAMPLES IF REQUESTED, FOR EACH TYPE OF PRODUCT INDICATED AND AS SPECIFIED.

E. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL MEET WITH THE LANDSCAPE ARCHITECT ON SITE TO PARTICIPATE IN A PRE-CONSTRUCTION MEETING.

F. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK UNTIL THE LANDSCAPE ARCHITECT ACCEPTS THE PROJECT AS COMPLETE AND THROUGHOUT MAINTENANCE PERIOD. WORK THAT DOES NOT MEET REQUIREMENTS IS SUBJECT TO REPAIR OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

2. PRODUCTS

A. HERBICIDE
1. POST-EMERGENT HERBICIDE SHALL BE OF LIQUID FORMULATION CAPABLE OF ACTING SYSTEMICALLY TO KILL THE ROOT SYSTEMS OF UNDESIRED PLANT MATERIAL.
2. PRE-EMERGENT HERBICIDE MAY BE OF GRANULAR OR LIQUID FORMULATION CAPABLE OF CONTROLLING BROADLEAF WEED GERMINATION.
3. SPECIFIC BRANDS AND FORMULATIONS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO APPLICATION.
4. HERBICIDES SHALL BE APPLIED UNDER THE GUIDANCE OF QUALIFIED, CERTIFIED PERSONNEL AND IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTHING IN THIS SPECIFICATION SHALL BE CONSTRUED TO BE THE ADVICE OF, OR TO SUBSTITUTE FOR THE ADVICE OF, A LICENSED PEST CONTROL OPERATOR.

B. PLANT MATERIAL
1. REFER TO THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, STANDARDIZED PLANT NAMES, LATEST EDITION. NAMES NOT LISTED SHALL GENERALLY CONFORM TO NAMES ACCEPTED BY THE NURSERY TRADE IN CENTRAL FLORIDA.
2. PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER. FURNISH NURSERY GROWN PLANT MATERIAL COMPLYING WITH THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION.
3. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ROOT SYSTEMS SHALL BE FULLY DEVELOPED BY TRANSPLANTING OR ROOT PRUNING.
a. CONTAINER GROWN STOCK SHALL MAINTAIN A FIRM BALL CONSISTENT WITH THE PLANT SIZE AND SPECIFIED CONTAINER SIZE. UNDERSIZED ROOT SYSTEMS, PLANTS THAT ARE LOOSE IN THE CONTAINER, HAVING ENCIRCLING ROOTS, OR POT BOUND ROOT SYSTEMS SHALL NOT BE ACCEPTABLE.
b. TREES WITH TURNING ROOTS MUST HAVE ROOTBALLS SHAVED IN ACCORDANCE WITH UF/IFAS RECOMMENDATIONS OR NOT BE DELIVERED TO PROJECT SITE.
c. BALLED AND BURLAPED STOCK SHALL BE DUG AT THE NURSERY WITH FIRM, NATURAL BALLS OF EARTH AT A DIAMETER TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM. B&B STOCK SHALL HAVE BEEN HARDENED OFF FOR A MINIMUM OF 30 DAYS PRIOR TO SHIPPING TO THE PROJECT SITE. BURLAP SHALL BE OF A BIODEGRADABLE MATERIAL. DAMAGED OR CRACKED ROOTBALLS SHALL NOT BE ACCEPTED.
5. THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSPECTION TO ACCOMPANY EACH SHIPMENT AND BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS AS REQUESTED.
6. THE LANDSCAPE ARCHITECT MAY OBSERVE PLANTS EITHER AT PLACE OF GROWTH OR AT THE PROJECT SITE PRIOR TO PLANTING FOR COMPLIANCE WITH REQUIREMENTS OF GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO OBSERVE PLANTS FURTHER FOR SIZE AND CONDITION OF ROOTBALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING THE PROGRESS OF WORK. REMOVE REJECTED PLANTS IMMEDIATELY FROM THE PROJECT SITE.
7. SOD
a. SOD SHALL BE SLAB SOD; ROLLED SOD WITH NETTING IS UNACCEPTABLE.
b. SLABS SHALL BE COMPLETE WITH A SOLID BASE CAPABLE OF SUPPORTING THE ROOT SYSTEM AND PROMOTING QUICK ESTABLISHMENT.
8. SEED AND MULCH
a. SEED SHALL BE SCARIFIED ARGENTINE BAHIA SEED.
b. WARM SEASON SEED MIX SHALL CONSIST OF 50 PERCENT BAHIA AND 50 PERCENT MILLET.
c. COOL SEASON SEED MIX SHALL CONSIST OF 50 PERCENT BAHIA AND 50 PERCENT ANNUAL RYE.

C. PLANTING SOIL AND BACKFILL
1. BACKFILL FOR PLANTINGS ARE AMENDED BASED ON THE EXISTING SOIL CONDITIONS OF THE PROJECT AND PLANTING SITES.
2. IF EXCESSIVELY HEAVY SOILS ARE ENCOUNTERED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LANDSCAPE ARCHITECT. FAILURE TO DO SO MAY IMPACT WARRANTY CONDITIONS.
3. IF EXISTING SOILS ARE UNSUITABLE FOR BACKFILL, CLEAN SANDY FILL SHALL BE USED INSTEAD.
4. BACKFILL SHALL CONSIST OF ONE PART OF EXISTING NATIVE SOIL AND ONE PART COMPOSTED PLANTING MIX. WHERE SOILS ARE HEAVIER, USE ONE THIRD EXISTING NATIVE SOIL AND TWO THIRDS SANDY FILL.
5. CLEAN NATIVE SOIL USED FOR BACKFILLING AND DISPOSE OF ROOTS, PLANTS, WEEDS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.

D. FERTILIZER
1. FERTILIZER FOR ALL TREES, SHRUBS, GROUNDCOVERS AND PALMS SHALL BE ARGIFORM® 20-10-5 PLANTING TABLETS PLUS MINORS 21-GRAM SIZE, OR APPROVED EQUAL.
2. SOD SHALL BE FERTILIZED WITH SLOW RELEASE ORGANIC GRANULAR FERTILIZER WITH AN N-P-K RATIO OF 6-6-6, PLUS MINOR ELEMENTS.
3. DOCUMENTATION OF FERTILIZER PURCHASES MAY BE REQUESTED AT ANY TIME.

E. MULCH
1. MULCH TYPES MAY VARY, UNLESS SPECIFIED ON THE PLANS. CONFIRM TYPES AND LOCATIONS OF MULCH WITH THE LANDSCAPE ARCHITECT.
a. FOR OUTLYING AREAS AND PLANTINGS, USE MINI PINE BARK NUGGETS.
b. AREAS AROUND BUILDINGS REQUIRE TREATED MELALEUCA MULCH OR ROCK MULCH.
2. SAMPLES OF MULCH OR VERIFICATION OF TYPES PURCHASED MAY BE REQUESTED.

F. STAKING
1. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE OTHER MEANS OF STAKING OR GUYING IMPLEMENTED IN ORDER TO PROPERLY SECURE PLANT MATERIAL.
2. TREES LESS THAN 10' IN HEIGHT AT INSTALLATION SHALL BE STAKED WITH A MINIMUM OF TWO PRESSURE TREATED LODGE POLES. STRAPS SHALL BE 1/4 WIDE UV RESISTANT ARBOR TIE, BLACK OR GREEN IN COLOR.
3. TREES GREATER THAN 10' IN HEIGHT AT INSTALLATION SHALL BE SECURED USING A ROOTBALL STAKING SYSTEM WITH NON-PRESSURE TREATED 2" X 4" LUMBER, HEAVY DUTY UV-RESISTANT STRAPS, AND A MECHANIZED RATCHETING TENSION DEVICE.
4. PALMS SHALL BE BRACED USING PALM BATTEN KITS AND 2" X 4" BRACES.

3. EXECUTION

A. EXAMINATION AND SITE READINESS
1. PROCEED WITH WORK ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT.
2. RECEIVE APPROVAL OF MATERIAL SUBMITTALS PRIOR TO WORK.
3. EXAMINE WORK AREAS FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. REFER TO SITE PREPARATION SPECIFICATIONS AND IRRIGATION SPECIFICATIONS.
4. IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS HARMFUL TO PLANT MATERIAL.
5. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

B. DELIVERY, STORAGE AND HANDLING OF PLANT MATERIAL
1. DELIVER PLANTS AFTER PLANTINGS BEDS AND OTHER SITE PREPARATION IS COMPLETE, AND INSTALL IMMEDIATELY ON THEIR ARRIVAL TO THE SITE.
2. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSPORTATION. PLANT MATERIAL EXHIBITING SIGNS OF DAMAGE WILL NOT BE ACCEPTED.
3. HANDLE PLANTING STOCK BY ROOTBALL OR THE PLANT CONTAINER. DO NOT DROP PLANTS DURING DELIVERY AND HANDLING.
4. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING.
5. B&B MATERIAL WHICH CANNOT BE PLANTED IMMEDIATELY AFTER DELIVERY SHALL BE HEALED IN, WATERED, AND MAINTAINED IN A HEALTHY CONDITION UNTIL INSTALLED.
6. WATER ROOT SYSTEMS OF PLANTS STORED ONSITE WITH A FINE-MIST SPRAY. WATER AS OFTEN AS NECESSARY TO MAINTAIN ROOT SYSTEMS IN A MOIST CONDITION.
7. IF PLANTING IS DELAYED MORE THAN SIX HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
8. DO NOT PRUNE TREE BRANCHES OR LIMBS BEFORE DELIVERY OR INSTALLATION EXCEPT AS DIRECTED BY THE LANDSCAPE ARCHITECT.

LANDSCAPE SPECIFICATIONS - CONTINUED

C. PREPARATION
1. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER EXISTING FEATURES WITHIN THE PROJECT LIMITS PRIOR TO ANY DIGGING. FOLLOW CHAPTER 556 F.S. UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT REQUIREMENTS.
2. VISUALLY INSPECT AND CONFIRM THAT PROPERTY BOUNDARIES ARE CLEARLY MARKED AND THAT PROJECT LIMITS ARE INSIDE THE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL WORK HAS OCCURRED WITHIN THE PROJECT LIMITS, INCLUDING THE SURVEYING OF PROPERTY LINES.
3. UTILIZE FDEP BEST MANAGEMENT PRACTICES AND PROVIDE EROSION CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.
4. LAY OUT PLANTING BEDS AND INDIVIDUAL PLANT LOCATIONS. STAKE LOCATIONS, OUTLINE AREAS, ADJUST LOCATIONS WHEN REQUESTED, AND OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF LAYOUT BEFORE PLANTING. MAKE MINOR ADJUSTMENTS AS REQUIRED.
5. THE CONTRACTOR IS RESPONSIBLE FOR WATERING THROUGHOUT INSTALLATION AND DURING MAINTENANCE WHETHER OR NOT AN IRRIGATION SYSTEM IS IN OPERATION. OTHER WATERING METHODS MAY BE ALLOWED WITH LANDSCAPE ARCHITECT'S APPROVAL.
6. PRIOR TO INSTALLING TREES, A PERCOLATION TEST SHALL BE CONDUCTED. DETERMINE THE LARGEST SIZED ROOTBALL PER THE PLANT SPECIFICATIONS AND EXCAVATE THE PROPER SIZED HOLE FOR THIS SIZE OF PLANT. FILL THE HOLE WITH WATER. IF THE WATER DRAINS OUT EFFICIENTLY, PROCEED WITH PLANTING AND BACKFILLING AS STIPULATED. IF WATER HAS NOT DRAINED IN A 24 HOUR TIME FRAME, CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY. FAILURE TO DO THIS PERCOLATION TEST MAY AFFECT THE CONDITION OF THE WARRANTY.

D. PLANT BED PREPARATION
1. PREPARE PLANTING BEDS TO BE FREE OF WEEDS, GRASSES AND OTHER VEGETATION THROUGH A PROGRAM OF POST-EMERGENT HERBICIDE APPLICATION AND MECHANICAL MEANS. FOLLOW MANUFACTURER'S SPECIFICATIONS AND SET ASIDE ADEQUATE TIME FOR HERBICIDE TO BE EFFECTIVE AND EVIDENT PRIOR TO MECHANICAL REMOVAL. REPEAT APPLICATIONS AS NECESSARY TO THOROUGHLY KILL WEEDS.
2. THE CONTRACTOR SHALL CARRY OUT PRECAUTIONS TO KEEP PERSONS AWAY FROM TREATED AREAS UNTIL THE APPLIED MATERIAL IS FULLY DRY AND SAFE FOR ENTRY.
3. ALL PLANTING BEDS SHALL BE RAKED SMOOTH AND FREE OF ROCKS AND DEBRIS.

E. PLANT INSTALLATION
1. CIRCULAR HOLES WITH VERTICAL SIDES SHALL BE EXCAVATED FOR ALL CONTAINERIZED PLANTS WHILE HOLES FOR B&B PLANT MATERIAL SHALL HAVE AN ADEQUATELY SIZED HOLE WITH SIDES THAT MATCH THE SHAPE OF THE ROOTBALL. THE DIAMETER OF PITS FOR TREES SHALL BE NO LESS THAN TWO TIMES THE DIAMETER OF THE ROOTBALL. A MINIMUM OF 4" OF COMPACTED AMENDED BACKFILL SHALL BE PLACED AT THE BOTTOM OF THE PLANT PIT PRIOR TO INSTALLING THE PLANT.
2. THE PLANT PIT SHALL BE DUG TO A DEPTH SO THAT THE TOP OF THE ROOTBALL IS 1" TO 2" ABOVE FINISH GRADE.
3. PLANTS SHALL BE CAREFULLY REMOVED FROM THE CONTAINER. REMOVE ALL GROW-BAGS FROM B&B PLANTS. B&B PLANTS SHALL HAVE ALL LIFTING STRAPS REMOVED ONCE THE PLANT IS SET. WIRE BASKETS MAY REMAIN ON THE ROOTBALL YET NO EXCESSIVE AMOUNTS OF WIRE SHALL BE VISIBLE ABOVE FINISH GRADE. PRIOR TO MULCH INSTALLATION, PEEL BURLAP DOWN 1/3 OF THE DISTANCE OF THE ROOTBALL.
4. ANY ENTWINED ROOT AREAS ALONG THE SIDES OF THE ROOTBALL SHALL BE DISTURBED OR PRUNED TO PROMOTE OUTWARD ROOT GROWTH. ROOTBALL SHAVING, IN ACCORDANCE WITH UF/IFAS RECOMMENDATIONS, IS REQUIRED FOR ANY TREE WITH TURNING ROOTS.
5. ANY TREE ROOTS THAT ARE DAMAGED SHALL BE PRUNED TO PROVIDE A CLEAN CUT.
6. SET PLANT MATERIAL IN THE PLANTING PIT AT THE PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUMB AND FACED TO GIVE THE BEST APPEARANCE, RELATIONSHIP TO EACH OTHER, AND ADJACENT STRUCTURES. PLANTING ANY PALMS DEEPER THAN THE DEPTH AT WHICH THEY WERE GROWN SHALL NOT BE ACCEPTABLE.
7. BACKFILL THE PIT WITH SPECIFIED BACKFILL SOIL MIXTURE HALFWAY UP THE ROOTBALL. INSTALL THE SPECIFIED FERTILIZER TABLETS BESIDES AND EVENLY AROUND THE ROOTBALL. DO NOT PLACE THE TABLETS AT THE BOTTOM OF THE PLANT PIT! COMPLETE BACKFILLING. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS.
8. WATER PLANT THOROUGHLY TO FULL SOILS AGAINST ROOTBALL AND SETTLE AIR POCKETS. ADDITIONAL BACKFILL SOIL MIXTURE MAY BE NEEDED. WATER AGAIN TO ENSURE COMPLETE COMPACTION.
9. FORM A RING OF SOIL AROUND THE EDGE OF EACH PLANTING PIT TO RETAIN WATER. THE SOIL SAUCER SHALL BE SIZED TO RETAIN WATER DURING THE ENTIRE PROGRAMMED RUN TIME OF THE IRRIGATION ZONE WHICH SERVICES THE PLANTED AREA.
10. STAKE, GUY OR BRACE TREES ALL TREES AND PALMS SO THEY MAINTAIN A STABLE AND UPRIGHT POSITION.
A. TREES LESS THAN 10' IN HEIGHT AT INSTALLATION SHALL BE STAKED WITH A MINIMUM OF TWO PRESSURE TREATED LODGE POLES. POLES SHALL BE DRIVEN INTO UNDISTURBED SOILS OUTSIDE OF THE PLANT PIT. FOR MULTI-TRUNK TREES SECURE THE TREE IN A MANNER THAT DOES NOT PULL APART OR BUNCH TOGETHER THE TRUNKS. TRIM ALL EXCESS STRAPS FOR A NEAT APPEARANCE.
B. TREES GREATER THAN 10' IN HEIGHT AT INSTALLATION SHALL BE GUYED USING A ROOTBALL STAKING KIT. LUMBER SHALL BE TIGHTLY SECURED TO THE TOP OF THE ROOTBALL. IF THE ROOTBALL DOES NOT ALLOW FOR ADEQUATE TIGHTENING (DUE TO SHAPE OR SIZE), ALTERNATIVE METHODS OF GUYING MAY BE ACCEPTED IF APPROVED BY THE LANDSCAPE ARCHITECT.
C. PALMS SHALL BE BRACED USING 2" X 4" LUMBER AND PALM BATTEN KITS. A MINIMUM OF TWO WRAPS OF BURLAP SHALL BE INSTALLED ONTO THE TRUNK OF THE PALM PRIOR TO BATTEN KIT BEING SECURED. USE A BALING TYPE STRAP OR LARGE STAINLESS STEEL HOSE CLAMPS TO SECURE BATTEN KIT TO THE PALM. THE CONTRACTOR SHALL CONFIRM ANY LUMBER PAINTING REQUIREMENTS WITH THE LANDSCAPE ARCHITECT.
D. FOR ALL STAKING, GUYING AND BRACING, WHERE TREES OR PALMS ARE INSTALLED IN SOD AREAS, ALL STAKING POLES, GUYS AND BRACES SHALL BE INCLUDED WITHIN THE MULCH RINGS OR EACH TREE.
E. APPROVAL FOR OTHER STAKING, GUYING OR BRACING METHODS MUST BE OBTAINED BY THE LANDSCAPE ARCHITECT.
11. INSTALL MULCH AS SPECIFIED. APPLY 3/4 LAYER OF MULCH THROUGHOUT PLANTING BEDS. DO NOT PLACE MULCH WITHIN 3/4 OF TRUNKS OR STEMS AND AVOID EXCESSIVELY PILING MULCH AROUND THE ROOT FLARE OF TREES OR ON THE CROWN OF THE ROOTBALL FOR SHRUBS AND GROUNDCOVERS. NEWLY PLANTED TREES SHALL HAVE ONLY 1/4 OF MULCH COVERING THE ROOTBALL.
12. SOD INSTALLATION
c. AREAS INDICATED ON THE PLAN AS SOD SHALL BE FINE GRADED USING A LANDSCAPE RAKE. EXTRA CARE SHALL BE TAKEN TO REMOVE ALL BUMPS AND DEPRESSIONS SO THAT THE SOD PLANE IS EVEN AND CONSISTENT WITHIN THE SOD AREAS.
d. ALL ROCKS, TRASH, AND DEBRIS SHALL BE REMOVED.
e. WHERE NEW SOD WILL ABUT ANY EXISTING SOD, THE GRADE SHALL BE CUT AND GRADUALLY TAPERED TO ALLOW FOR A SEAMLESS, BUMP-FREE JOINT BETWEEN THE EXISTING AND NEW SOD AREAS.
f. SOD SHALL BE LAID IN A NEAT MANNER. ALL SOD GAPS MUST BE FILLED AND ALL SOD CUTS MUST BE REMOVED.
g. SOD EDGES AND BEDLINES SHALL BE CRISP. GRADES ALONG CURBS OR SIDEWALKS SHALL BE AT THE CORRECT LEVEL SO THAT THE SOD BASE IS NOT SEEN. GRADES ALONG THESE AREAS SHALL BE TRANSITIONAL AND SAFE FOR PEDESTRIANS.
h. ALL SOD AREAS SHALL BE MECHANICALLY OR MANUALLY ROLLED WITHIN 24 HOURS OF INSTALLATION.
13. SEED AND MULCH
a. AREAS INDICATED ON THE PLAN AS SEED AND MULCH SHALL BE FINE GRADED. EXTRA CARE SHALL BE TAKEN TO REMOVE ALL BUMPS AND DEPRESSIONS SO THAT THE GRADE IS EVEN AND CONSISTENT.
b. ALL ROCKS, TRASH AND DEBRIS SHALL BE REMOVED.
c. SEED SHALL BE EVENLY BROADCAST AT THE SPECIFIED RATE.
d. SEED MIXTURE SHALL BE LIGHTLY RAKED INTO THE SOIL SURFACE AND THEN LIGHTLY ROLLED IN A MANNER TO AVOID DAMAGING SEEDS.
e. CLEAN STRAW SHALL BE EVENLY BROADCAST THROUGHOUT THE SEEDED AREAS.
f. ALL SEEDED AREAS SHALL THEN BE DISKED NO DEEPER THAN 2" TO PROVIDE GOOD CONTACT BETWEEN THE STRAW AND SOIL.
g. SEED AND MULCH AREAS SHALL BE LIGHTLY WATERED DURING THE COURSE OF THE PROJECT TO INSURE ADEQUATE MOISTURE FOR SEED GERMINATION.
14. FERTILIZATION
a. GROUNDCOVERS, SHRUBS, TREES, AND PALMS SHALL BE FERTILIZED DURING THE PLANT INSTALLATION. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS!
b. SOD AREAS SHALL BE FERTILIZED NO EARLIER THAN 30 DAYS AFTER THE SOD IS INSTALLED.
c. SEED AND MULCH AREAS SHALL NOT BE FERTILIZED.

F. PRUNING
1. REMOVE ONLY DEAD, DYING, OR BROKEN BRANCHES ACCORDING TO STANDARD HORTICULTURAL PRACTICES. RETAIN NATURAL CHARACTER OF PLANT; DO NOT PRUNE FOR SHAPE OR CUT TREE LEADERS UNLESS SPECIFICALLY REQUESTED BY THE LANDSCAPE ARCHITECT.
2. TREES MAY BE PRUNED ACCORDING TO UF/IFAS STANDARDS FOR PRUNING TREES AT PLANTING WITH AUTHORIZATION BY THE LANDSCAPE ARCHITECT.
3. REQUIRED SIZES ARE AFTER PRUNING SIZES.

G. PROTECTION AND CLEANUP
1. PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIR AND RESTORATION OF ANY AND ALL DAMAGE TO HIS OWN WORK, THE WORK OF OTHERS OR EXISTING SITE IMPROVEMENTS AND FEATURES CAUSED BY HIS OPERATIONS.
3. DURING PLANTING, KEEP ADJACENT AREAS AND WORK AREAS IN A CLEAN AND ORDERLY CONDITION.
4. REMOVE SURPLUS SOIL, WASTE MATERIAL, TRASH, DEBRIS, TEMPORARY STRUCTURES, AND EQUIPMENT AND LEGALLY DISPOSE OF THEM OFF SITE.

LANDSCAPE SPECIFICATIONS - CONTINUED

H. MAINTENANCE
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PLANTS AND PLANTING BEDS DURING INSTALLATION AND THROUGHOUT A 90 DAY MAINTENANCE PERIOD THAT BEGINS FOLLOWING LANDSCAPE ARCHITECT ACCEPTANCE OF WORK. BEGIN PLANT MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL PLANTINGS ARE ACCEPTABLY HEALTHY AND WELL ESTABLISHED, BUT NOT FOR LESS THAN THE MAINTENANCE PERIOD.
4. MAINTAIN PLANTINGS BY REMOVING DEAD BRANCHES, CULTIVATING, WATERING, MULCHING, WEEDING, RESTORING PLANTING SAUCERS, ADJUSTING, REPAIRING, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP PLANTS FREE OF INSECTS AND DISEASE.
5. MAINTAIN A 3" LAYER OF MULCH IN PLANTING BEDS. REMOVE OR KILL WEEDS WEEKLY. APPLY PRE- AND POST-EMERGENT HERBICIDE AS NECESSARY. WEEDS SHALL BE REMOVED AND DISPOSED OF OFF-SITE IF LARGER THAN 6A IN HEIGHT OR WIDTH.
6. WATER AS NEEDED TO MAINTAIN PLANTINGS IN A HEALTHY, STRESS-FREE CONDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PLANTS RECEIVE ADEQUATE WATER REGARDLESS OF WEATHER CONDITIONS OR PROVIDED GUIDELINES.
7. WHERE @WATER UNTIL ESTABLISHED@ IS USED TO DESCRIBE THE PERIOD OF REQUIRED WATERING, A PERIOD OF TIME SHALL NOT BE USED. ESTABLISHMENT IS DETERMINED BY VARIOUS FACTORS FOR THE INDIVIDUAL PLANT AND IS RELATED TO ROOT GROWTH AND CANOPY DEVELOPMENT WHICH IS NEEDED TO SUPPORT THE TREE/PLANT DEVELOPMENT.
8. AT A MINIMUM, APPLY FIVE GALLONS WATER PER INCH OF TRUNK CALIPER TO THE ROOTBALL OF EACH TREE OR PLANT.
a. DAILY WATERING WILL HELP ESTABLISH TREES QUICKER AND KEEP THEM HEALTHIER.
b. THE FREQUENCY OF WATERING HAS A GREATER IMPACT ON ESTABLISHMENT THAN THE VOLUME OF WATER APPLIED.
c. DEEP WATERING (HEAVY CYCLE) WILL NOT MAKE UP FOR A LACK IN WATERING FREQUENCY AND MAY ACTUALLY CREATE EROSION PROBLEMS FOR THE CONTRACTOR TO ADDRESS.
d. RECOMMENDED SCHEDULE:
1) DAILY WATERING: ONE MONTH
2) EVERY OTHER DAY: TWO MONTHS
3) WEEKLY WATERING: UNTIL ESTABLISHED
7. TREE ESTABLISHMENT TAKES ANYWHERE FROM THREE TO SIX MONTHS, DEPENDING ON SOIL CONDITIONS AND OTHER WEATHER RELATED CONDITIONS.

4. ACCEPTANCE

A. THE LANDSCAPE ARCHITECT WILL INSPECT WORK TO DETERMINE IF COMPLETE WITH WRITTEN NOTIFICATION FROM THE CONTRACTOR AT LEAST FIVE BUSINESS DAYS PRIOR TO INSPECTION DATE.

B. THE LANDSCAPE ARCHITECT WILL PROVIDE A PUNCH LIST FOR ITEMS THAT NEED TO BE CORRECTED. NOTIFY THE LANDSCAPE ARCHITECT TWO BUSINESS DAYS PRIOR TO RE-INSPECTION.

C. WHEN ALL WORK COMPLIES AND CONFORMS TO THE PLANS AND SPECIFICATIONS, IS MAINTAINED, AND HAS HEALTHY, VIGOROUS PLANTS AT TIME OF INSPECTION, WORK WILL BE ACCEPTED BY THE LANDSCAPE ARCHITECT AS COMPLETE. SUCH TIME WILL BEGIN THE GUARANTEE PERIOD.

D. WORK SHALL NOT BE FINALLY ACCEPTED UNTIL EXPIRATION OF THE WARRANTY PERIOD.

5. WARRANTY

A. CONTRACTOR AGREES TO REPAIR WORK OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL MATERIALS AND LABOR.

B. FAILURES INCLUDE BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. DEATH OR UNSATISFACTORY GROWTH, EXCEPT FOR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
2. FAILURE TO ADEQUATELY MONITOR NEW PLANT INSTALLATIONS FOR COMPLIANCE WITH THESE SPECIFICATIONS.
3. STRUCTURAL FAILURES INCLUDING PLANTS FALLING, BLOWING OVER, OR WASHING OUT.
4. FAILURE TO CONTACT THE LANDSCAPE ARCHITECT REGARDING POOR SOIL CONDITIONS.
5. FAILURE TO CONDUCT THE REQUIRED SOIL PERCOLATION TESTING.

C. WARRANTY PERIOD: ONE YEAR FROM DATE FOLLOWING COMPLETION OF WORK BY CONTRACTOR, AND ACCEPTANCE BY LANDSCAPE ARCHITECT.

D. INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
1. REMOVE AND REPLACE PLANTS THAT ARE MORE THAN 25 PERCENT DEAD, OR IN AN OTHERWISE UNHEALTHY CONDITION AS DETERMINED BY THE LANDSCAPE ARCHITECT.
2. REPLACEMENT PLANTS SHALL BE NEW AND HEALTHY, AND INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS WITHIN TWO WEEKS OF NOTIFICATION.
3. A LIMIT OF ONE REPLACEMENT OF EACH PLANT WILL BE REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.
4. PROVIDE EXTENDED WARRANTY AND MAINTENANCE FOR REPLACED PLANT MATERIALS; WARRANTY PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD.

5. END OF LANDSCAPE SECTION

IRRIGATION SPECIFICATIONS

1. SCOPE OF WORK

A. THE CONTRACTOR SHALL PROVIDE ALL DESIGN, LABOR, MATERIALS, EQUIPMENT, SERVICES, PERMITS, AND FEES NECESSARY FOR THE DESIGN AND INSTALLATION OF A COMPLETE AND PROPERLY OPERATING AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

B. WORK GENERALLY INCLUDES:
1. DRAWINGS, INCLUDING PLAN LAYOUT, SYSTEM PIPING (LOCATIONS, TYPES, SIZES, AND CAPACITIES), WATER METER, PRESSURE TANK, BACK FLOW PREVENTERS, VALVES, PIPING, SPRINKLERS AND DEVICES, ACCESSORIES, CONTROLS, FLOW SENSOR, RAIN SENSOR, AND WIRING.
2. COORDINATING CONNECTIONS TO EXISTING SYSTEM AND/OR ONSITE WELL.
3. DOCUMENTING WATER SUPPLY PERFORMANCE DATA (GPM AND PSI).
4. SIZING, ZONING, AND ROUTING OF LINES.
5. FURNISHING ALL PRODUCTS AND INSTALLING SUCH IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PROCEDURES AND THESE SPECIFICATIONS.
6. ALL ELECTRICAL WORK AND CONNECTIONS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
7. TRENCHING, EXCAVATING, BACKFILLING AND RELATED SITE WORK.
8. PROVIDING SLEEVES UNDER PROPOSED PAVEMENT AND INFRASTRUCTURE, AND RELATED WORK.
9. PROVIDING MEANS TO GET PIPE SYSTEMS UNDER EXISTING SURFACES OR INFRASTRUCTURE.
10. NECESSARY AND REASONABLE SYSTEM ADJUSTMENTS DURING AND AFTER INSTALLATION.
11. PROVIDING AS-BUILT DRAWINGS RECORDING COMPLETE SYSTEM.
12. TRAINING PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN SYSTEM.
13. MAINTAINING A CLEAN, ORDERLY WORK SITE DURING WORK AND AT THE END OF EACH DAY.
14. OTHER RELATED WORK.

C. CONTRACTOR IS RESPONSIBLE FOR:
1. PROPER SYSTEM PERFORMANCE.
2. FOLLOWING ALL GOVERNING CODES AND REGULATIONS WHETHER OR NOT STIPULATED.
3. PROVIDING ALL APPLICABLE PERMITS AND FEES.
4. ALL REQUIRED COORDINATION DURING INSTALLATION.
5. SYSTEM READINESS FOR TIME OF PLANTING.
6. PROVIDING COMPETENT SUPERVISION OF THEIR WORK AT ALL TIMES.
7. THOROUGH AND TIMELY COMPLETION OF WORK.
8. GUARANTEE ALL WORK AND MATERIALS THROUGH GUARANTEE PERIOD.

D. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED AND AS SPECIFIED.

E. SCHEDULE INSPECTIONS TO CHECK TRENCHING LAYOUT AND TO REVIEW PRESSURE TESTING OF PIPING PRIOR TO BACKFILLING. PRESSURE TESTING IS TYPICALLY REQUIRED FOR PIPES WITH A 3" DIAMETER AND LARGER HOWEVER CERTAIN PROJECTS WITH SMALLER DIAMETER PIPES MAY ALSO REQUIRE TESTING.

F. CONTRACTOR SHALL PROVIDE AN OWNER'S MANUAL TO INCLUDE REQUIRED AS-BUILT PLANS, WARRANTIES, OPERATIONAL INFORMATION, AND OTHER DOCUMENTATION.

G. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK UNTIL THE LANDSCAPE ARCHITECT ACCEPTS THE PROJECT AS COMPLETE. WORK THAT DOES NOT MEET REQUIREMENTS IS SUBJECT TO REPAIR OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

2. PERFORMANCE STANDARDS

A. ALL PRODUCTS AND INSTALLATION METHODS SHALL BE PER THESE REQUIREMENTS. WHERE CONFLICTS BETWEEN STANDARDS OCCUR, THE MORE STRINGENT STANDARD SHALL APPLY.

B. RETROFITTING EXISTING ZONES TO MEET THE PERFORMANCE STANDARDS AND PRODUCT REQUIREMENTS WILL ONLY BE REQUIRED IF DIRECTED BY THE LANDSCAPE ARCHITECT.

IRRIGATION SPECIFICATIONS - CONTINUED

A. DESIGN AND LAYOUT
1. HIGH VOLUME IRRIGATION (AS DEFINED BY THE MARION COUNTY LAND DEVELOPMENT CODE) SHALL NOT EXCEED 75 PERCENT OF THE TOTAL LANDSCAPE AREA. LOW VOLUME IRRIGATION MAY BE USED TO IRRIGATE AN ENTIRE LANDSCAPE AREA EXCEPT FOR TURF GRASS AREAS.
2. HIGH VOLUME IRRIGATION MAY BE USED FOR TURF AND GROUNDCOVER AREAS WHICH HAVE A PLANT GROWTH HEIGHT OF 1' OR LESS. LOW VOLUME IRRIGATION MAY BE USED IN SHRUB AND GROUNDCOVER AREAS WITH A GROWTH HEIGHT OF MORE THAN 1'.
3. IRRIGATION HEADS, EMITTERS, OR VALVES SHALL HAVE PRESSURE REGULATION DEVICES TO REGULATE THE PRESSURE OF WATER LEAVING THE SYSTEM IN ORDER TO REDUCE MISTING AND OVER-WATERING.
4. SEPARATION OF ZONES COVERING TURF AREAS AND BED AREAS SHALL BE REQUIRED TO THE GREATEST EXTENT PRACTICABLE. SEPARATION SHALL BE CLARIFIED BY THE LANDSCAPE ARCHITECT.
5. ALL ZONES SHALL BE PROPERLY BALANCED.
6. THE IRRIGATION MAINLINE SHALL BE LOCATED TO PROVIDE EASE OF CONSTRUCTION FROM THE POINT-OF-CONNECTION, THROUGH THE METER AND BACKFLOW ASSEMBLY AND DISTRIBUTED TO LOCATIONS AS NEEDED TO SUPPLY ADEQUATE WATER AND PRESSURE FOR THIS SYSTEM. CARE SHALL BE TAKEN AT THIS PHASE TO ROUTE MAINLINES AND OTHER LATERAL LINES AROUND EXISTING TREES IN ORDER TO MINIMIZE DISRUPTION OF THE ROOT ZONES.
7. VALVE MANIFOLDS (HENCE VALVE BOXES) SHALL BE LOCATED IN AREAS WHICH PROVIDE EASE OF ACCESS YET NOT BE AN EYESORE OR NOTICEABLE FROM PUBLIC RIGHT-F-WAYS.
8. IRRIGATION HEAD SPACING SHALL PROVIDE 100 PERCENT OVERLAPPING HEAD-TO-HEAD COVERAGE.
9. THERE SHALL BE NO OVER-SPRAY ONTO SIDEWALKS, BUILDINGS, WALLS, OR STRUCTURES.

D. INSTALLATION
1. IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR LANDSCAPE IRRIGATION SYSTEMS, AS AMENDED.
2. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER EXISTING FEATURES WITHIN THE PROJECT LIMITS PRIOR TO ANY DIGGING. FOLLOW CHAPTER 556 F.S. UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT REQUIREMENTS.
3. NO IRRIGATION SHALL BE INSTALLED IN THE LANDSCAPE AREAS UNTIL THE FINAL LAYOUT OF THE LANDSCAPING HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT.
4. THE CONTRACTOR WILL LAYOUT THE PROPOSED MAINLINE ROUTE AND OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO CONDUCTING ANY TRENCHING. THE APPROVED MAINLINE ROUTE SHALL NOT BE CHANGED WITHOUT AUTHORIZATION FROM THE LANDSCAPE ARCHITECT.
5. ALL TRENCHES SHALL BE EXCAVATED ACCORDING TO THESE STANDARDS. TRENCHES SHALL BE BACKFILLED IN 6" LIFTS AND COMPACTED AS TO PREVENT SETTLING. IF NATIVE SOILS ARE UNSUITABLE FOR COMPACTION, THE CONTRACTOR SHALL IMPORT SANDY FILL TO BACKFILL TRENCHES.
6. REFER TO THE PROJECT DETAILS FOR MINIMUM INSTALLATION STANDARDS.

E. CLEAN UP
1. UPON COMPLETION OF THE IRRIGATION INSTALLATION, THE CONTRACTOR SHALL POLICE THE PROJECT AREA AND REMOVE ALL DEBRIS, TRASH, AND ANY OTHER REMNANTS OF IRRIGATION INSTALLATION.
2. ALL SOD AREAS SHALL BE RAKED AND FREE OF ROCKS OR OTHER DEBRIS.

3. PRODUCTS

A. BACKFLOW PREVENTION
1. BACKFLOW PREVENTION DEVICES SHALL CONFORM TO ALL LOCAL CODES. VERIFY ALL BACKFLOW PROVISIONS WITH THE LANDSCAPE ARCHITECT.
2. FOR LARGER COMMERCIAL PROJECTS, A DOUBLE-CHECK VALVE (WILKINS BRAND, OR APPROVED EQUAL) MAY BE REQUIRED.
3. FOR SMALLER PROJECTS, AN ATMOSPHERIC VACUUM BREAKER MAY BE REQUIRED.

B. PIPING
1. ALL PVC PIPE IN THE SYSTEM SHALL BE CLASS 200 IPS PVC SOLVENT WELD.
2. SLEEVES, IF REQUIRED, SHALL BE SCHEDULE 40 IPS PVC OR BETTER.
3. FLEXIBLE PIPE CONNECTIONS SHALL BE THICK-WALLED FUNNY PIPE. K-FLEX MAY NOT BE USED UNLESS AUTHORIZED BY THE LANDSCAPE ARCHITECT.
4. ALL SOLVENT WELD FITTINGS SHALL BE SCHEDULE 40, OR BETTER. FUNNY PIPE FITTINGS SHALL BE OLSON-ELL, LASCO BLUE TWISTER, OR APPROVED EQUAL.

C. HEADS
1. WITHIN EACH ZONE, BUBBLERS SHALL HAVE MATCHED PRECIPITATION RATES.
2. FLOOD BUBBLERS SHALL BE RAIN BIRD 1300A-F ADJUSTABLE FLOOD BUBBLERS.

D. VALVES
1. REMOTE CONTROL VALVES SHALL BE HUNTER PGV-101G-AS-ADJ, OR APPROVED EQUAL.
2. REMOTE CONTROL VALVES FOR RECLAIMED OR EFFLUENT WATER SUPPLIES SHALL BE RAIN BIRD PEB SERIES.
3. ISOLATION VALVES SHALL BE THREADED PVC SCHEDULE 40 PLASTIC BALL VALVE; USED PRIMARILY TO SHUT DOWN A VALVE MANIFOLD.
4. GATE VALVES SHALL BE THREADED BRASS BALL VALVE SIZED APPROPRIATELY FOR THE MAIN OR LATERAL LINE; USED PRIMARILY TO SHUT DOWN A MAINLINE OR PORTION OF A ZONE.
5. LARGER GATE VALVES (3" DIAMETER AND OVER) SHALL BE AWWA APPROVED CAST IRON RESILIENT SEATED GATE VALVE WITH A 2" OPERATING NUT.
6. QUICK COUPLING VALVES SHALL BE RAIN BIRD 33-DLRC BRASS VALVE WITH A LOCKING CAP.

E. CONTROLLER
1. IRRIGATION CONTROLLER SHALL BE HUNTER ICC SERIES. CONTROL WIRE SHALL BE UF UL DIRECT BURIAL WIRES. WIRE COLOR SHALL BE WHITE FOR COMMON WIRE AND RED FOR ZONE WIRES AND SHALL REMAIN CONSISTENT THROUGHOUT THE INSTALLATION.
2. WATERPROOF WIRE CONNECTORS SHALL BE SPEARS D-400, OR APPROVED EQUAL.
3. RAIN SENSOR SHALL BE HUNTER MINI-CLIK.

F. DRIP IRRIGATION
1. REMOTE CONTROL VALVES FOR DRIP IRRIGATION SHALL BE RAIN BIRD XCZ SERIES DRIP IRRIGATION VALVE KIT INCLUDING VALVE, PRESSURE REGULATOR, AND WYE FILTER. SOLENOID TYPE (AC OR DC-LATCHING) WILL BE DETERMINED PER PROJECT.
2. DISTRIBUTION TUBING SHALL BE RAIN BIRD XBS SERIES, OR APPROVED EQUAL.
3. IN-LINE DRIP TUBING SHALL BE RAIN BIRD XF SERIES DRIPLINE, OR APPROVED EQUAL, WITH EMITTER SPACING OF 24A ON-CENTER.
4. TIE-DOWN STAKES SHALL BE GALVANIZED METAL AND SPECIFICALLY MANUFACTURED FOR STAKING DOWN DRIP IRRIGATION COMPONENTS.
5. TUBING FITTINGS SHALL BE RAIN BIRD EASY FIT COMPRESSION FITTINGS, OR APPROVED EQUAL.
6. DRIP EMITTERS SHALL BE RAIN BIRD XERI-BUG EMITTERS, OR APPROVED EQUAL.

4. ACCEPTANCE

A. THE LANDSCAPE ARCHITECT WILL INSPECT WORK TO DETERMINE IF COMPLETE WITH WRITTEN NOTIFICATION FROM THE CONTRACTOR AT LEAST FIVE BUSINESS DAYS PRIOR TO INSPECTION DATE.

B. THE LANDSCAPE ARCHITECT WILL PROVIDE A PUNCH LIST FOR ITEMS THAT NEED TO BE CORRECTED. NOTIFY THE LANDSCAPE ARCHITECT TWO BUSINESS DAYS PRIOR TO REINSPECTION.

C. WHEN THE CONTRACTOR FURNISHES ALL WORK, SUBMITTALS, PLANS, WARRANTIES, AND DEMONSTRATES TO THE LANDSCAPE ARCHITECT THAT A PROPERLY BALANCED, ADJUSTED, AND EFFICIENTLY OPERATING SYSTEM HAS BEEN COMPLETED, WORK WILL BE ACCEPTED BY THE LANDSCAPE ARCHITECT AS COMPLETE. SUCH TIME WILL BEGIN THE GUARANTEE PERIOD.

D. D. WORK SHALL NOT BE FINALLY ACCEPTED UNTIL EXPIRATION OF THE GUARANTEE PERIOD.

5. GUARANTEE

A. CONTRACTOR AGREES TO REPAIR OR REPLACE ANY DEFECTS IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED GUARANTEE PERIOD. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL MATERIALS AND LABOR. CONTRACTOR SHALL FURNISH GUARANTIES IN WRITING.

B. GUARANTEE PERIOD: ONE YEAR FROM DATE FOLLOWING COMPLETION OF WORK BY CONTRACTOR AND ACCEPTANCE BY LANDSCAPE ARCHITECT.

C. MANUFACTURER'S WARRANTIES SHALL ALSO BE HONORED BASED ON THE CONDITIONS OF THOSE WARRANTIES.

END OF IRRIGATION SECTION

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION #: 30224
APPROVAL DATE: 09/25/23
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AVE. OCALA, FL 34471
PHONE: (352) 671-8560 FAX: (352) 671-8550
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ROTARY SPORTSPLEX
FIELD IMPROVEMENTS
SPECIFICATIONS

Revision	Date

Date 08/16/2023
Job # ---
Dwg # ---
Drawn: JBA
Review: JRC
Approval: ---

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DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
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ROTARY SPORTSPLEX FIELD IMPROVEMENTS

TREE PRESERVATION PLAN

TREES TO REMAIN

ID	TREE	DBH (Inches)
T-16	OAK	16"
T-17	OAK	18"
T-18	OAK	20"
T-19	OAK	12"
T-20	OAK	17"
T-24	OAK	18"
T-25	OAK	19"
T-26	OAK	20"
T-27	OAK	60"
		200" TOTAL

TREES TO BE REMOVED

ID	TREE	DBH (Inches)
T-1	OAK	20"
T-2	OAK	20"
T-3	OAK	18"
T-4	OAK	24"
T-5	OAK	24"
T-6	OAK	21"
T-7	OAK	21"
T-8	OAK	16"
T-9	OAK	18"
T-10	OAK	22"
T-11	OAK	18"
T-12	OAK	20"
T-13	OAK	24"
T-14	OAK	24"
T-15	OAK	4"
T-21	OAK	15"
T-22	OAK	18"
T-23	OAK	16"
		343" TOTAL

TREE CALCULATIONS
PROPERTY ACREAGE: 83.35 AC.
PROJECT ACREAGE: 11.69 AC.

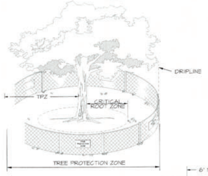
TOTAL TREES: 27
TREES TO BE REMOVED: 18
TREES TO REMAIN: 9

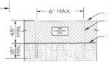
TOTAL INCHES: 543"
INCHES TO BE REMOVED: 343"
INCHES TO REMAIN: 200"

PRE-DEVELOPMENT INCHES PER ACRE: 46" (543" / 11.69)
POST-DEVELOPMENT INCHES PER ACRE: 48" (557" / 11.69)
REQUIRED DBH INCHES PER ACRE: 46"
REQUIRED INCHES: 543"
PROVIDED INCHES: 557" (200" + 357")***

*** 357" = (102 TREES X 3.5")

NOTE:
ONLY TREES LARGER THAN 10" COUNTED IN TREE CALCULATIONS.







TRUNK PROTECTION
WHEN TREES ARE SO CLOSE TO CONSTRUCTION ACTIVITIES THAT THE TRUNK OR BUTTRESS ROOTS MAY BE MECHANICALLY DAMAGED, THOSE PARTS MUST BE PROTECTED AS SHOWN.

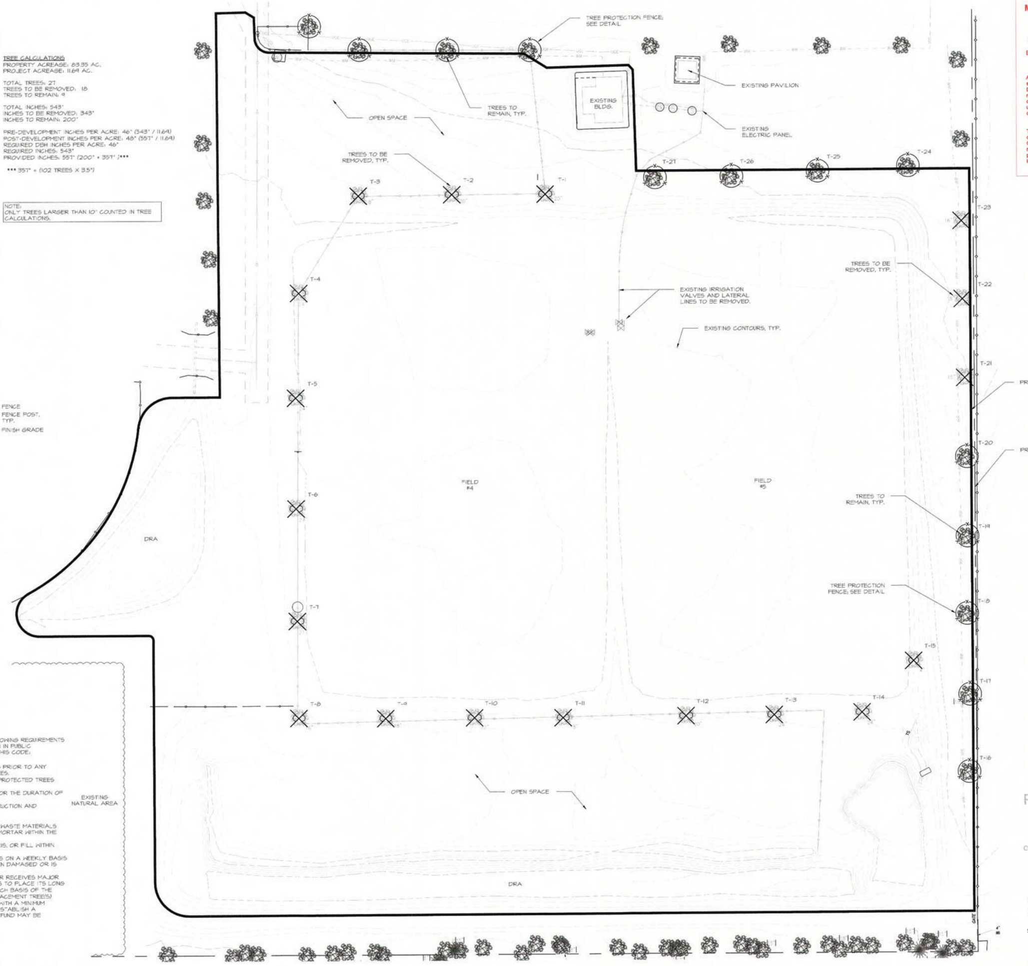


CROSS SECTION VIEW

TREE PROTECTION NOTES:

TREE PROTECTION SHALL CONTINUE DURING THE COURSE OF CONSTRUCTION. THE FOLLOWING REQUIREMENTS SHALL BE CONDITIONS OF TREE REMOVAL PERMITS, ALL PERMITS FOR CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY, AND ALL DEVELOPMENT PERMITS ISSUED UNDER AND PURSUANT TO THIS CODE:

1. TREE PROTECTION BARRICADES:
   - 1.1. SHALL BE INSTALLED AROUND ALL PROTECTED TREES AND GROUPS OF TREES PRIOR TO ANY CLEARING OR GRADING OPERATIONS, INCLUDING THE REMOVAL OF OTHER TREES.
   - 1.2. FOR LARGE GROUPS OF TREES, BARRICADES MAY BE PLACED BETWEEN THE PROTECTED TREES AND THE CONSTRUCTION ACTIVITY AREA.
   - 1.3. BARRICADES SHALL BE MADE OF RIGID MATERIAL CAPABLE OF SURVIVING FOR THE DURATION OF THE CONSTRUCTION.
   - 1.4. BARRICADES SHALL BE INSPECTED WEEKLY DURING THE DURATION OF CONSTRUCTION AND REPAIRED/REINSTALLED AS REQUIRED.
   - 1.5. REQUIRED SIGNS SHALL STATE "TREE PROTECTION ZONE".
2. THE CLEANING OF CONSTRUCTION EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, AND MORTAR WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
3. THE MOVEMENT OF EQUIPMENT OR THE STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, OR FILL WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
4. THE CONTRACTOR SHALL INSPECT ALL TREE PROTECTION BARRICADES AND SIGNS ON A WEEKLY BASIS DURING THE COURSE OF CONSTRUCTION. ANY BARRICADE OR SIGN WHICH HAS BEEN DAMAGED OR IS MISSING SHALL BE REPLACED IMMEDIATELY.
5. IF ANY TREE WHICH HAS NOT BEEN APPROVED TO BE REMOVED IS DESTROYED, OR RECEIVES MAJOR DAMAGE DURING CONSTRUCTION, WITH THE EXCEPTION OF NATURAL EVENTS, SO AS TO PLACE ITS LONG TERM SURVIVAL IN QUESTION, THE TREE(S) MUST BE REPLACED AT AN INCH-FOR-INCH BASIS OF THE TOTAL (COMBINED) DBH OF THE TREE(S) SO DESTROYED OR DAMAGED. THE REPLACEMENT TREE(S) SHALL BE OF COMPARABLE SPECIES TO THE DESTROYED OR DAMAGED TREE(S) WITH A MINIMUM REPLACEMENT SIZE OF 3.5-INCH CALIPER. THE COUNTY RESERVES THE RIGHT TO ESTABLISH A REPLACEMENT VALUE FOR SUCH TREES AND PAYMENT INTO THE TREE MITIGATION FUND MAY BE AUTHORIZED BY THE COUNTY'S LANDSCAPE ARCHITECT.



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Scale: 1" = 40'

Revision	Date

Date 08/16/2023
Job # ---
Dwg # ---
Drawn: JBA
Review: JRC
Approval: ---

LS-02

Sheet 2 of 5

SITE DATA:

PROPERTY ACREAGE: 83.35 AC.
PROJECT ACREAGE: 11.69 AC.

SHADE TREE REQUIREMENT (LDC 6.7.4.)
1 SHADE TREE PER 3,000 SF

REQUIRED
11.69 AC X 43,560 SF = 509,216 SF
509,216 SF / 3,000 SF = 170 TREES
170 SHADE TREES REQUIRED

PROPOSED

PARKING LOT	6
EAST BUFFER	4
DRA:	92
TOTAL:	102

102 TREES / 170 TOTAL TREES = 60%
68 TREES DEFICIENT (170-102)
68 TREES / 170 TOTAL TREES = 40%

WAIVER
LDC 6.7.4.A - SHADE TREES APPROVED 07-3-2023

WAIVER TO REDUCE THE SHADE TREE REQUIREMENT BY 40% SHADE

SHADE TREE REQUIREMENT PER WAIVER = 102 TREES (170 X 0.60)

NATIVE SHADE TREE REQUIREMENTS (LDC 6.8.10(c))
A MINIMUM OF 50 PERCENT OF THE REQUIRED SHADE TREES SHALL BE FLORIDA NATIVE SPECIES SUITABLE FOR USE IN MARION COUNTY.

REQUIRED:
102 / 2 = 51 NATIVE TREES

PROVIDED:
102 TREES

SHADE TREE SPECIES DIVERSITY REQUIREMENT (LDC 6.8.10(d))
NO MORE THAN 50 PERCENT OF THE REQUIRED SHADE TREES FOR A DEVELOPMENT SHALL BE OF ONE SPECIES.

REQUIRED:
102 / 2 = 51 TREES

PROVIDED:
31 TREES (BALD CYPRESS)

LANDSCAPE AREA REQUIREMENT (LDC DIV. 6; 6.8.4)
FOR NON-RESIDENTIAL DEVELOPMENT, AT LEAST 20% OF LAND DEVELOPED SHALL BE LANDSCAPED.

TOTAL PROJECT AREA = 509,216 SF
TOTAL IMPERVIOUS AREA = 63,543 SF
SYNTHETIC FIELDS = 211,160 SF
TOTAL PERVIOUS AREA = 234,513 SF = (509,216 - 63,543 - 211,160)

REQUIRED: 101,843 SF (509,216 SF X 20%)
PROVIDED: 234,513 SF / 509,216 SF = 46%

BUFFER REQUIREMENT (LDC 6.8.6)
NO BUFFER IS REQUIRED.

PLANT SCHEDULE

DRA

SYMBOL	QTY	PLANT NAME	NATIVE	SIZE & SPACING
TD	31	BALD CYPRESS TAXODIUM DISTICHUM	Y	CONT/B&B; 12-14' HT X 7' SPR. 3.5" MIN. CAL.
AR	26	RED MAPLE ACER RUBRUM 'FLORIDA FLAME'	Y	CONT/B&B; 12-14' HT X 7' SPR. 3.5" MIN. CAL.
BN	29	RIVER BIRCH BETULA NIGRA 'BNMTF' DURA-HEAT	Y	CONT/B&B; 12-14' HT X 7' SPR. 3.5" MIN. CAL.

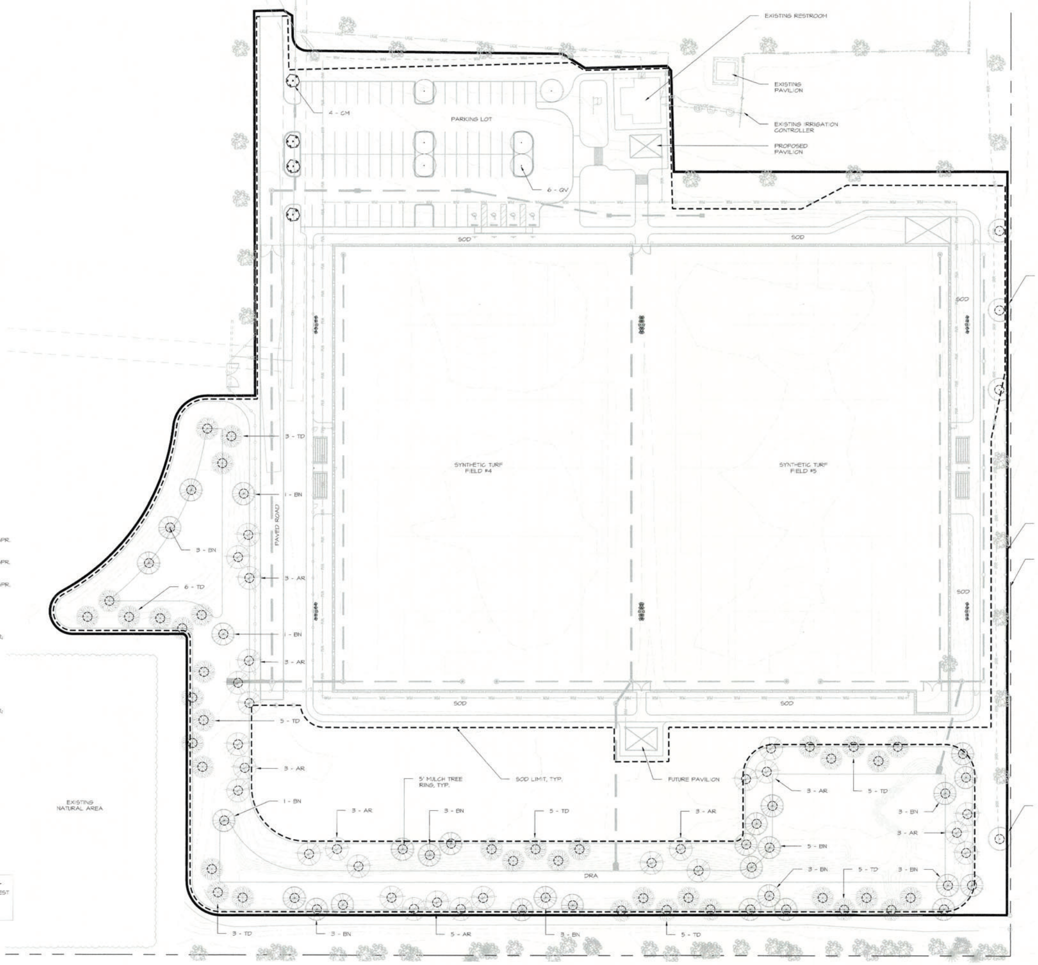
PARKING LOT

SYMBOL	QTY	PLANT NAME	NATIVE	SIZE & SPACING
QV	6	LIVE OAK QUERCUS VIRGINIANA	Y	B & B; 12-14' HT x 7-9' SPR; 3.5" MIN. CAL.
CM	4	CREPE MYRTLE, WHITE LAGERSTROEMIA INDICA 'NANCHEZ'	N	#30; 9'+ HT x 5'+ SPR. FULL

EAST BUFFER

SYMBOL	QTY	PLANT NAME	NATIVE	SIZE & SPACING
QV	4	LIVE OAK QUERCUS VIRGINIANA	Y	B & B; 12-14' HT x 7-9' SPR; 3.5" MIN. CAL.
SOD		ARGENTINE BAHIA PASPALUM NOTATUM 'ARGENTINE'	N	
MULCH		PINE BARK MINI NUGGETS		3" DEPTH

NOTE:
UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE DESIGN PROFESSIONAL. A LANDSCAPE AND IRRIGATION AS-BUILT CERTIFICATION SHALL BE SIGNED AND SEALED BY THE DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY LANDSCAPE ARCHITECT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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ROTARY SPORTSPLEX FIELD IMPROVEMENTS

OVERALL PLANTING PLAN

Revision	Date

RECEIVED
Marion County
Office of County Engineer

Date: 08/16/2023
Job #: ---
Dwg #: ---
Drawn: JBA
Review: JRC
Approval: ---

Scale: 1" = 40'

LS-03

Sheet 3 of 5

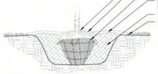
DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

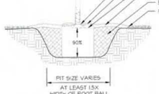
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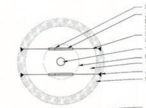


TREE PLANTING PIT DETAIL
(BALLED AND BURLAPPED)

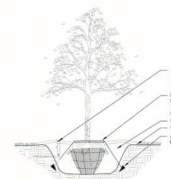


TREE PLANTING PIT DETAIL
(CONTAINER GROWN)

NOTES:
1. REMOVE ALL SYNTHETIC MATERIALS INCLUDING STRAPS, STRINGS, AND SYNTHETIC BURLAP. NATURAL BURLAP MAY BE LEFT IN PLACE.
2. ALL ROOT SYSTEMS SHALL BE REASONABLY FREE OF ROOT DEFECTS INCLUDING:
A. POTENTIALLY STEM-GIRDLING ROOTS ABOVE THE ROOT COLLAR AND MAIN STRUCTURAL ROOTS,
B. VERTICAL ROOTS, AND
C. KINKED ROOTS.
3. BACKFILL SOIL SHALL BE NATIVE SOIL REMOVED FROM PIT FREE OF ROCKS, STICKS AND OTHER DELETERIOUS SOILS. WATER-IN AND LIGHTLY COMPACT BACKFILL TO REMOVE AIR POCKETS.
4. BERMS ARE NOT REQUIRED UNLESS TREE IS WATERED BY HOSE, BUCKET OR OTHER HIGH VOLUME METHOD.



PLAN VIEW



TREE INSTALLATION WITH ROOT BALL KIT
(TREES OVER 10' HEIGHT AT INSTALLATION AND AWAY FROM PUBLICLY USED AREAS)
SET TREE AND APPLY MULCH PER TREE PIT DETAIL

LANDSCAPE NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

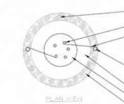
1. FOLLOWING ALL APPLICABLE CODES AND REGULATIONS CONCERNING THE WORK, WHETHER THEY ARE IMPLIED OR STIPULATED IN THE CONSTRUCTION DOCUMENTS.
2. REPORTING AND REPAIRING ANY DAMAGE CAUSED BY HIS WORK OR ACTIONS.
3. MAINTAINING THE JOBSITE IN A CLEAN, PROFESSIONAL AND WORKMANLIKE MANNER.
4. COORDINATION WITH ALL OTHER ASPECTS OF THE JOB AFFECTING THE FINISHED CHARACTER, INCLUDING ADJUSTMENTS TO PLANT LOCATIONS IF REQUIRED.
5. PERFORMING THE WORK IN A CONTINUOUS AND FLUID MANNER UNTIL IT IS COMPLETE, FROM SITE PREPARATION THROUGH FINAL WALK THROUGH AND TURNOVER.
6. OBSERVING AND REPORTING ANY DETRIMENTAL SOIL, DRAINAGE, OR ANY OTHER CONDITIONS WHICH WOULD AFFECT THE HEALTH AND PERFORMANCE OF THE LANDSCAPING.
7. REVIEWING THE SITE AS A WHOLE TO DETERMINE IF ANY ASPECTS OF THE PLAN(S) PRESENT A CONFLICT WITH THE SITE CONDITIONS. ANY CONFLICTS SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
8. OBSERVING AND REPORTING ANY CONDITIONS WHICH WOULD AFFECT THE PERFORMANCE OF THE IRRIGATION SYSTEM(S) TO INCLUDE WATER QUALITY.
9. MAINTAINING THE LANDSCAPE THROUGHOUT THE COURSE OF THE INSTALLATION.
10. PROVIDING WATER TO ALL PLANT MATERIAL DURING THE COURSE OF THE INSTALLATION.

B. THE SCOPE OF WORK SHALL INCLUDE:

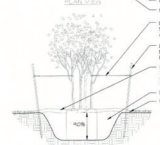
1. PRESENTATION OF SUBMITTALS AND SAMPLES OF MATERIALS AS REQUIRED.
2. SUBMITTAL OF A WRITTEN GUARANTEE INCLUDING ALL MANUFACTURER'S WARRANTIES.
3. SUPPLYING OF PLANT MATERIAL OF THE SPECIFIED TYPE, SIZE, AND QUANTITY.
4. PROPER LOCATION, LAYOUT, AND ORIENTATION OF TREES AND PLANTING BEDS. APPROVAL OF ALL LAYOUT IS REQUIRED PRIOR TO PLANTING.
5. PROPER AMENDMENT OF THE SOIL USED FOR PLANTING, PREPARATION OF BED AREAS, SIZING OF PLANTING PITS AND CORRECT PLANTING PROCEDURES (REFER TO LANDSCAPE SPECIFICATIONS, SECTION C, SHEET L04).

C. THE LANDSCAPE ARCHITECT IS RESPONSIBLE FOR INSURING THAT THE WORK MEETS ALL REQUIREMENTS AS OUTLINED IN THE SPECIFICATIONS AND PLANS, IMPLIED OR STIPULATED. ANY WORK THAT DOES NOT MEET SAID REQUIREMENTS IS SUBJECT TO REPLACEMENT BY THE CONTRACTOR AT THEIR OWN COST.

D. LANDSCAPING AND IRRIGATION SHALL BE IN ACCORDANCE WITH THE MARION COUNTY LAND DEVELOPMENT CODE, ARTICLE 6, SECTIONS 6.8 AND 6.9.
1. ALL PLANTS SHALL BE FLORIDA #1 GRADE OR BETTER AS SHOWN BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY.
2. ALL LANDSCAPE MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA-FRIENDLY BEST MANAGEMENT PRACTICES FOR PROTECTION OF WATER RESOURCES BY THE GREEN INDUSTRIES, THE UNIVERSITY OF FLORIDA COOPERATIVE EXTENSION SERVICE OR WITH THE FLORIDA YARDS & NEIGHBORHOODS HANDBOOK.



PLAN VIEW



TREE INSTALLATION WITH LODGE POLES
(TREES UNDER 10' HEIGHT AT INSTALLATION)
SET TREE AND APPLY MULCH PER TREE PIT DETAIL

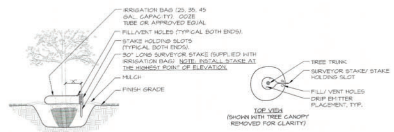
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ROTARY SPORTSPLEX FIELD IMPROVEMENTS
PLANTING DETAILS

Revision	Date

Date 08/16/2023
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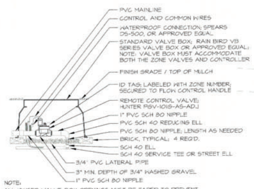
IRRIGATION BAG INSTALLATION

SET TREE AND APPLY MULCH PER TREE PIT DETAIL. SECURE TREE/PALM BY APPROPRIATE DETAIL.

IRRIGATION BAG CAPACITY		
'X'	BAG SIZE	INSTALL ON:
18"	25 GAL.	#15 TREES
21"	35 GAL.	NOT USED
24"	45 GAL.	#30 TREES AND PALMS

IRRIGATION BAG INSTALLATION DETAIL

Scale: 1/2"=1'



NOTE:
ALL UNUSED VALVE BOX OPENINGS MUST BE TAPED TO PREVENT SOIL FROM WASHING INTO VALVE BOX. TAPE ON OUTSIDE OF BOX.

REMOTE CONTROL VALVE INSTALLATION

N.T.S

IRRIGATION NOTES

1. EXISTING IRRIGATION SYSTEM AND VALVES TO BE LOCATED PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO DETERMINE IF ANY OF THE EXISTING COMPONENTS ARE SUITABLE FOR RE-USE
3. CONTRACTOR SHALL VERIFY WATER SOURCE DATA PRIOR TO COMMENCING WORK.
4. MAINLINE, VALVE, AND LATERAL PIPING ON THIS SHEET ARE REPRESENTED SCHEMATICALLY FOR CLARITY PURPOSES. ALL IRRIGATION COMPONENTS SHALL BE INSTALLED WITHIN THE PROPERTY LIMITS OF THIS SITE.
5. LOCATIONS OF VALVE MANIFOLDS SHALL BE SELECTED WITH CONSIDERATION TO POTENTIAL VEHICULAR DAMAGE, VANDALISM, AND FOR EASE OF MAINTENANCE. MANIFOLDS SHALL NOT BE LOCATED ON ANY SLOPE WITH DIRECT ROADSIDE EXPOSURE.
6. MAINLINE SHALL HAVE MINIMUM 2' COVER. LATERALS SHALL HAVE BETWEEN 12" AND 18" COVER, TYP. ROUTE ALL MAINLINE AND LATERAL ZONE PIPING TO AVOID DAMAGING EXISTING TREE ROOTS; MINIMIZE OPERATING UNDER THE DRIP LINE OF ALL EXISTING TREES.
7. FIELD ADJUSTMENTS TO PIPE ROUTING, VALVE LOCATION OR PIPE SIZING IS ENCOURAGED TO PROVIDE AN INSTALLATION WHICH RESPONDS TO THE FINAL GRADE, UTILITY STRUCTURES AND EXISTING TREES. NOTE ALL CHANGES ON THE AS-BUILT PLANS.

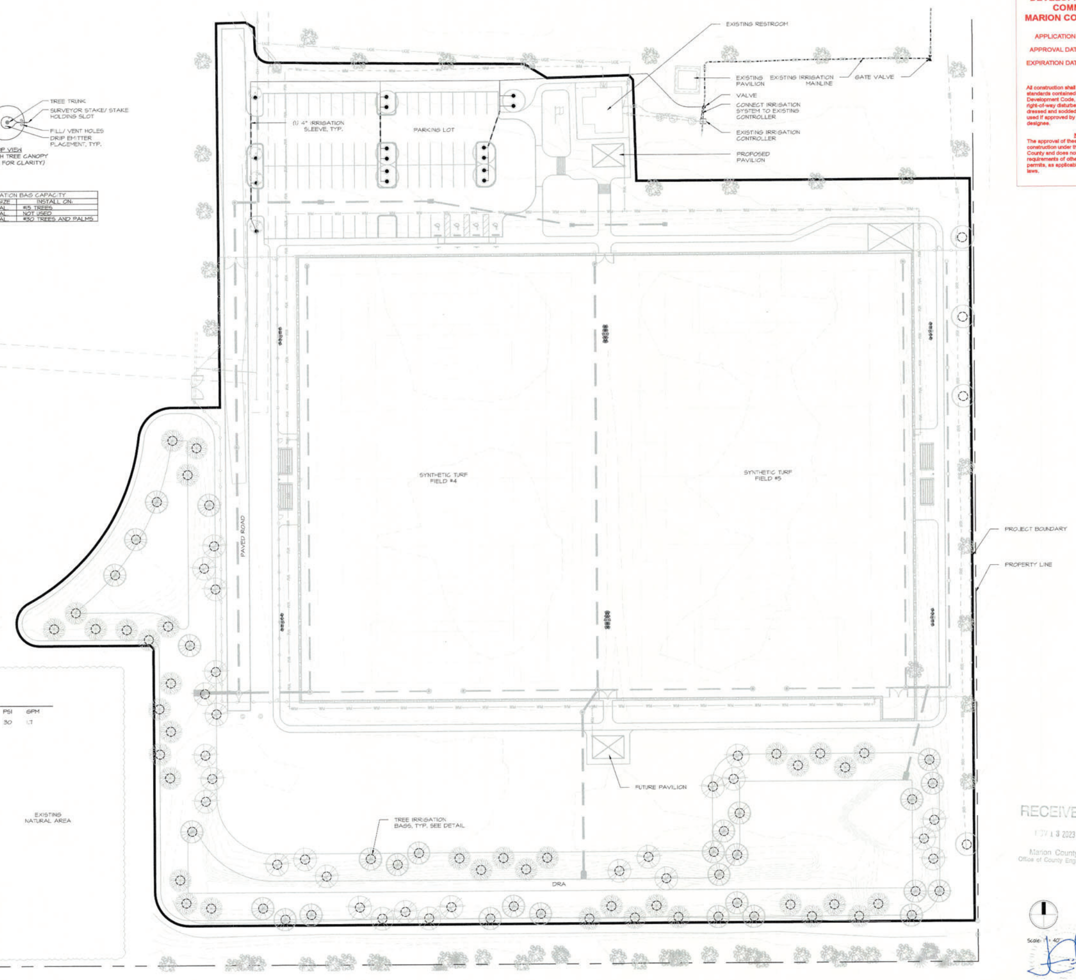
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM
●	RAIN BIRD 1300A-F ADJUSTABLE FULL-CIRCLE BUBBLER	360	30	1.7
◐	HUNTER 1" ZONE CONTROL VALVE PGV-101G-AS-ADJ			
———	IRRIGATION LATERAL LINE; PVC CLASS 160			
- - - - -	EXISTING IRRIGATION MAINLINE			
— — —	IRRIGATION PIPE SLEEVE (BY OTHERS)			
C	EXISTING IRRIGATION CONTROLLER			

ZONE #	TYPE
1	TREE BUBBLER
GPM	SIZE
27.2	1"

NOTE:

UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION AND THE ACCEPTANCE OF THE AS-BUILT DIAGRAM AND OPERATIONAL INFORMATION, A FINAL INSPECTION AND LANDSCAPE/IRRIGATION RELEASE SHALL BE SIGNED AND SEALED BY THE IRRIGATION DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY'S LANDSCAPE ARCHITECT.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

Marion County
FLORIDA
PARKS & RECREATION
111 SE 25th AVE. OCALA, FL 34471
PHONE: (352) 671-8560 FAX: (352) 671-8550
www.marioncountyfl.org

ROTARY SPORTSPLEX FIELD IMPROVEMENTS

OVERALL IRRIGATION PLAN

Date	Revision

RECEIVED
NOV 13 2023
Marion County
Office of County Engineer

Date 08/16/2023
Job # ---
Dwg # ---
Drawn: JBA
Review: JRC
Approval: ---

Scale: 1" = 40'

LS-05

Sheet 5 Of 5

File Name & Location: C:\Users\fj_ca\OneDrive – cabralengineering.com\CabralEng\DESIGN\SITE PROJECTS\Rotary Sportsplex\03 Working\Rotary sheets.dwg Layout: E001 Printed: Mon, 19 Jun 2023 – 8:46
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Cabral Engineering Inc. shall be without liability to Cabral Engineering Inc.

GENERAL NOTES

1. THE ELECTRICAL WORK IS SUBJECT TO ALL OF THE CLIENT'S TERMS, CONDITIONS AND SPECIFICATION, INCLUDING WORKMANSHIP. GENERAL WORK PRACTICE FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION" (ANSI).
2. IT IS THE INTENT OF THESE ELECTRICAL DRAWINGS TO CALL FOR FINISHED WORK; TESTED, AND READY FOR OPERATION. FOR THE ELECTRICAL WORK, "PROVIDE" IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO PROCURE, FABRICATE, FURNISH, INSTALL, MOUNT, WIRE, CONNECT AND SUPPLY ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK TO THE ACCEPTANCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION (AHJ).
3. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL HAVE A MINIMUM OF THIRTY-SIX (36) INCHES OF COVER.
4. CONTRACTOR MUST HAVE ALL REQUIRED PERMITS IN-HAND BEFORE BEGINNING ANY CONSTRUCTION.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE THE ELECTRIC UTILITY STANDARDS AND AHJ STANDARD SPECIFICATIONS.
6. UNDER NO CIRCUMSTANCES SHALL THE ACTIVITIES OF THE CONTRACTOR OR ANY SUBCONTRACTORS CAUSE ANY INTERRUPTIONS TO THE SERVICE OPERATION OF EXISTING UTILITIES WITHOUT WRITTEN AUTHORIZATION FROM THE UTILITY OWNER AUTHORIZED REPRESENTATIVE.
7. CONTRACTOR SHALL NOTIFY ALL UTILITIES INVOLVED AND MAKE THE NECESSARY ARRANGEMENTS FOR THE RELOCATION OF THESE UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY OWNERS AND THE CITY OF ORLANDO REPRESENTATIVE ARE NOTIFIED OF ANY TEMPORARY DISRUPTION OF SERVICE AT LEAST ONE WEEK IN ADVANCE.
8. FOR CONNECTIONS TO EXISTING STRUCTURES, THE CONTRACTOR SHALL EXCAVATE THE CONNECTION SITE TO VERIFY THE PIPE TYPE, ELEVATION, SIZE AND CONDITION, AND CHECK FOR OBSTRUCTIONS PRIOR TO ORDERING MATERIALS AND INSTALLATION OF THE CONDUIT.
9. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING BEFORE COMMENCING CONSTRUCTION WORK.
10. WHEN USING SCALED DATA CONSIDER THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE DURING REPRODUCTION.
11. CONDUIT LENGTHS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR.
12. SURVEY FOR THIS PROJECT WAS PERFORMED BY JCH CONSULTING GROUP INC.
13. THE CONTRACTOR SHALL FURNISH THE OWNER WITH AN "AS-BUILT SURVEY" PREPARED BY A LICENSED PROFESSIONAL WHERE SURVEYOR.

GENERAL ELECTRICAL REQUIREMENTS

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:
   1.1. NFPA 70 NATIONAL ELECTRICAL CODE 2017 ED.
2. 'FURNISH AND INSTALL' AND 'PROVIDE' ARE EQUIVALENT TERMS WHICH INDICATE MATERIAL AND/OR EQUIPMENT SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
   2.1. FURNISHED' DENOTES MATERIAL OR EQUIPMENT SUPPLIED BUT NOT INSTALLED BY THIS CONTRACTOR.
   2.2. 'INSTALLED' DENOTES THE SETTING IN POSITION OR CONNECTION OF MATERIAL OR EQUIPMENT BY THIS CONTRACTOR BUT SUPPLIED BY OTHERS.
3. IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE SYSTEMS AND COMPONENTS THAT ARE FULLY COMPLETE AND OPERATIONAL AND FULLY SUITABLE FOR THE INTENDED USE.
4. ELECTRICAL SYSTEMS SHALL BE INSTALLED AS A COMPLETE INSTALLATION. INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION SHALL BE INCLUDED IN THE WORK OF THIS CONTRACTOR.
5. ALL COMPONENTS SHALL HAVE NEMA RATINGS SUITABLE FOR THE ENVIRONMENT. UNLESS OTHERWISE REQUIRED BY OWNER, OR AHJ, THE MINIMUM RATING FOR ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R.
6. PREBID SURVEY. CONTRACTOR SHALL SURVEY THE JOBSITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE FOLLOWING:
   6.1. AREAS REQUIRING DEMOLITION, TEMPORARY POWER, RELOCATING, ETC. WHICH ARE INADVERTENTLY NOT SHOWN ON THE DRAWINGS.
   6.2. PROBLEMS WITH WORK SEQUENCE.
   6.3. ANY UNUSAL CONDITIONS NOT SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
7. ACCEPTABLE MANUFACTURERS: THE LISTING OF A MANUFACTURER AS "ACCEPTABLE" UNDER ANY DIVISION 26 REQUIREMENTS DOES NOT IMPLY AUTOMATIC APPROVAL. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY SUBMITTALS MADE ARE FOR PRODUCTS THAT MEET OR EXCEED THE SPECIFICATIONS INCLUDED HERE.
8. SUBMIT SHOP DRAWINGS TO ENGINEER FOR ALL ELECTRICAL ITEMS. THE SHOP DRAWINGS SHALL BE SUBMITTED COMPLETE FOR ALL ELECTRICAL ITEMS.
9. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT BEING REVIEWED OR THE CONTRACTOR SHALL AGREE TO PAY THE ELECTRICAL ENGINEER DIRECTLY AT AN HOURLY RATE OF $135.00 TO REVIEW SUBSEQUENT SUBMITTALS. SHOP DRAWING RE-SUBMITTALS DUE TO REJECTIONS FOR NOT SUBMITTING THE SPECIFIED ITEMS ARE ALSO SUBJECT TO THE HOURLY REVIEW FEE.
10. DIVISION 26 SUB-CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND VERIFY EQUIPMENT VOLTAGE, PHASE AND AMPS PRIOR TO ROUGH-IN OF ALL EQUIPMENT.

11. ALL EQUIPMENT, DEVICES, ETC. FURNISHED BY ELECTRICAL CONTRACTOR SHALL BE U.L. LISTED (OR EQUIVALENT NATIONAL TESTING AGENCY) FOR IT'S INTENDED PURPOSE. INFORM OWNER THAT ALL OWNER FURNISHED EQUIPMENT, DEVICES, ETC. MUST ALSO HAVE A U.L. LISTING (OR EQUIVALENT LISTING).
12. ALL ELECTRICAL COMPONENTS (CONDUIT, WIRE, FITTINGS, SUPPORTS, CIRCUIT BREAKERS, LAMPS, ETC.) PROVIDED AND INSTALLED IN THIS PROJECT SHALL BE BRAND NEW. RE-USE OF EXISTING COMPONENTS WILL NOT BE APPROVED.
13. UTILITY COORDINATION: CONTRACTOR SHALL SUBMIT A COMPLETE SET OF CONSTRUCTION DOCUMENTS TO UTILITY COMPANY IMMEDIATELY AFTER RECEIVING NOTICE TO PROCEED OR PRIOR TO ANY SITE OR BUILDING ROUGH-IN. COORDINATE EASEMENT LOCATIONS BETWEEN OWNER AND UTILITY COMPANY. VERIFY WITH UTILITY COMPANY: PROPOSED VOLTAGE, PHASE, OLE/PAD-MOUNT TRANSFORMER LOCATIONS, METERING, UTILITY PRIMARY ROUTING AND CONDUIT REQUIREMENTS, ETC.

GROUNDING

1. PROVIDE INSULATED GROUND CONDUCTORS IN ALL CONDUITS.
2. PROVIDE GROUNDING BUSHINGS FOR FEEDER CONDUITS.
3. TRANSFORMERS SHALL BE GROUNDED TO BUILDING STEEL WITH EXOTHERMIC CONNECTIONS.
4. SERVICE GROUND RESISTANCE SHALL BE MEASURED WITHOUT DEPENDING ON WATER PIPING SYSTEM & SHALL BE 25Ω OR LESS, IF GREATER THAN 25Ω, DRIVE ADDITIONAL GROUND RODS TO OBTAIN REQUIRED RESISTANCE.
5. GROUND METAL LIGHTING POLES AS REQUIRED BY N.E.C.

WIRES, CABLES AND CONNECTORS

1. ALL CONDUCTORS SHALL BE COPPER WITH 600V 75°C WITH THHN/THWN-2 INSULATION FOR USE WITHIN BUILDING CONFINES. WHERE INSTALLED BEYOND THE BUILDING CONFINES, SUCH AS IN UNDERGROUND FEEDER BANKS OR CIRCUITRY TO SITE LUMINARIES IT SHALL BE COPPER WITH 600V, 75', XHHW-2 INSULATION.
2. USE SOLID CONDUCTOR, SINGLE CONDUCTOR, NO. 12 AWG MINIMUM FOR GENERAL USE WIRING.
3. USE STRANDED CONDUCTOR, SINGLE CONDUCTOR NO. 8 AWG AND LARGER, FOR MOTORS AND OTHER INSTALLATIONS WHERE VIBRATION IS GENERATED.
4. COLOR-CODING SHALL IDENTIFY THE SAME PHASE THROUGHOUT THE SYSTEM, FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITRY. ALL WIRING SHALL BE COLOR-CODED AS FOLLOWS:

208/120 VOLT	480/277 VOLT
PHASE A-BLACK	PHASE A-BROWN
PHASE B-RED	PHASE B-ORANGE
PHASE C-BLUE	PHASE C-YELLOW
NEUTRAL-WHITE	NEUTRAL-WHITE TRACER OR GRAY

5. A STANDARD 500V MEGGER INSULATION TEST SHALL BE MADE AND RECORDED FOR ALL FEEDER CIRCUITS. PROVIDE A COPY OF TEST RESULTS TO ENGINEER FOR REVIEW.
6. PROVIDE LUGS FOR FEEDER SIZES INDICATED ON DRAWINGS OR AS REQUIRED.
7. ALL CIRCUIT WIRING SHALL BE SIZED FOR 3% MAXIMUM VOLTAGE DROP.

ELECTRICAL IDENTIFICATION

1. PROVIDE CABLE/CONDUCTOR IDENTIFICATION BANDS.
2. PROVIDE ENGRAVED PLASTIC LAMINATE SIGNS, WHITE LETTERING ON A BLACK BACKGROUND, FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK: SWITCHBOARDS, MOTOR STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECTS, AND JUNCTION BOXES. NAME PLATES SHALL IDENTIFY PANEL DESIGNATION (NAME), VOLTAGE, PHASE AND WIRE CONFIGURATION.
3. UNDERGROUND CABLE/CONDUIT IDENTIFICATION PLASTIC LINE MARKERS SHALL BE PROVIDED THE CONTINUOUS TRENCH LENGTH.

ELECTRICAL DEMOLITION AND ALTERATIONS

1. ANY EXISTING CIRCUITS OR EQUIPMENT NOT SHOWN ON DRAWINGS AND WHICH ARE LOGICALLY EXPECTED TO BE CONTINUED IN SERVICE SHALL BE RECONNECTED IN AN APPROVED MANNER.
2. WIRING TO ELECTRICAL EQUIPMENT BEING DISCONNECTED SHALL BE REMOVED BACK TO THEIR OVERCURRENT DEVICE OR BACK TO NEAREST ACTIVE JUNCTION BOX.
3. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING CONDUIT IN REMODELED AREA THAT IS TO REMAIN AND IS NOT PROPERLY SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.
4. EXCEPT FOR CONDUIT, CONDUCTORS AND MISCELLANEOUS HARDWARE, ALL ELECTRICAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY OWNER.

CONDUIT & RACEWAYS

1. MINIMUM SIZE CONDUIT SHALL BE 1/2". DOES NOT APPLY TO MC CABLE.
2. ALL BURIED CONDUIT, AND SUBSEQUENT WIRING INSTALLATIONS SHALL BE COMPLETED IN A MANNER THAT MEETS THE REQUIREMENTS OF THE AHJ, UTILITY, AND ALL APPLICABLE CODES.
3. CONDUIT SHALL BE MC CABLE, ELECTRICAL METALLIC TUBING, OR RIGID GALVANIZED STEEL CONDUIT. SCHEDULE 40 PVC CONDUIT IS ALLOWED FOR CONDUITS IN/UNDER THE SLAB AND UNDERGROUND. MC CABLE MAY NOT BE USED FOR ANY HOMERUN.
4. ALL CONDUIT SHALL BE CONCEALED. CONDUIT SHALL BE EMT IN INTERIOR AREAS, AND RIGID GALVANIZED STEEL CONDUIT IN EXTERIOR AREAS.
5. COORDINATE ROUTING (LOCATION) OF CONDUIT WITH HVAC DUCTWORK, PLUMBING PIPING AND SPRINKLER PIPING.
6. SECURE CONDUIT IN PLACE WITH CORROSION-PROOF ALLOY STRAPS AT SPACINGS AS REQUIRED BY N.E.C. CONDUIT SHALL BE SECURED TO BUILDING STRUCTURE.
7. INSTALL FLEXIBLE STEEL CONDUIT NOT OVER 3' LONG TO MOTORS, TRANSFORMERS AND EQUIPMENT SUBJECT TO VIBRATION.
8. INSTALL LIQUID-TIGHT FLEXIBLE CONDUIT NOT OVER 3' LONG WHERE SUBJECT TO MOISTURE, DIRT OR FUMES.
9. TYPE MC CABLE SHALL BE OF THE INTERLOCKING JACKET TYPE. CABLE SHALL BE SUPPORTED AT NOT MORE THAN SIX-FOOT INTERVALS, AND ALL FITTINGS SHALL BE IDENTIFIED FOR USE WITH SAID CABLE. MC CABLE SHALL NOT BE USED FOR SERVICE ENTRANCE OR IN EXPOSED AREAS. MC CABLE MAY BE USED ABOVE DROP CEILINGS AND IN INTERIOR PARTITIONS.
10. CONTRACTOR SHALL MINIMIZE FLOOR SLAB PENETRATIONS.
11. ALL CONDUIT RUNS SHALL BE DESIGNED TO PRESENT A NEAT AND ORDERLY APPEARANCE,RUNNING LINES PARALLEL WITH BUILDING STRUCTURE OR WALLS.
12. ROOFTOP UNITS AND EXHAUST FANS ARE TO BE WIRED THROUGH THE ROOF CURBS OR UTILIZE FACTORY-FABRICATED ROOF PIPING CURBS. PITCH POCKETS ARE NOT ALLOWED.
13. ROMEX CABLE IS NOT PERMITTED.
14. CONDUIT SHALL BE ROUTED PERPENDICULAR THROUGH RATED WALLS. PROVIDE PROPER SLEEVES AND FIRE SAFING/SEALANTS.
15. PROVIDE UL APPROVED FIRE SEALS FOR ALL FIRE RATED WALL AND FLOOR PENETRATIONS.

CONDUIT FITTINGS

1. COMPRESSION TYPE STEEL OR STEEL SETSCREW TYPE SHALL BE UTILIZED.
2. PROVIDE PROPER EXPANSION FITTINGS WHEN CROSSING BUILDING EXPANSION LINES.

PANELBOARDS

1. PANELBOARDS SHALL BE MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, EATON OR SIEMENS.
2. PROVIDE SPD ON ALL NEW ELECTRICAL PANELS AND LOAD CENTERS. SPD MAY BE INTERNAL OR EXTERNAL. BREAKER POSITIONS FOR PANEL MAY BE INCREASED AS REQUIRED TO ADD SPD.
3. PROVIDE LIGHTING & APPLIANCE PANELBOARDS, & POWER DISTRIBUTION PANELBOARDS WITH DEAD FRONT COVERS, FULL SIZE NEUTRAL & BOLT-ON HEAVY DUTY, QUICK MAKE, QUICK BREAK CIRCUIT BREAKERS. PANEL BOARDS SHALL BE U.L. LISTED.
4. INSTALL PANELBOARDS SO TOP BREAKER IS NOT HIGHER THAN 6'-0" ABOVE FLOOR OR GRADE.
5. CONTRACTOR SHALL BALANCE PHASES IN PANELBOARD SO THAT LOAD IMBALANCE DOES NOT EXCEED 10%.
6. PANELBOARD SHALL INCLUDE COMPLETE TYPEWRITTEN DIRECTORY.
7. PROVIDE SPARE CONDUITS TO CEILING CAVITY FOR SPARES/SPACES IN RECESSED PANELBOARDS. PROVIDE (1) ¾". FOR EVERY 3 SPACES.
8. PROVIDE 120V POWER TO 480V CIRCUIT BREAKER SHUNT-TRIPS FROM NEAREST 120V PANELBOARD.
9. LOAD CENTERS SHALL BE DEAD FRONT, FACTORY ASSEMBLED, FULL-SIZE NEUTRAL AND GROUND BAR. NOTE: IF LOADCENTERS CANNOT BE FABRICATED TO MEET THE MINIMUM REQUIREMENTS SPECIFIED, PROVIDE LIGHTING & APPLIANCE PANELBOARDS WITH BOLT-ON BREAKERS.
10. NON-LINEAR PANELBOARDS SHALL BE PROVIDED WHERE INDICATED ON PLANS. EQUIP WITH 200% RATED NEUTRAL.
11. PROVIDE U.L. LISTED BREAKERS FOR ALL PANELBOARDS TO MATCH MANUFACTURER & AIC RATING.

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT (HVAC)
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT OR CONDUCTOR
CB	CIRCUIT BREAKER
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSING UNIT (HVAC), COPPER
DS	DISCONNECT (SAFETY) SWITCH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EL	EMERGENCY LIGHT (UNSWITCHED)
ELE	ELECTRICAL, ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FBC	FLORIDA BUILDING CODE
FDS	FUSED DISCONNECT (SAFETY) SWITCH
FLOUR	FLOURESCENT
FMC	FLEXIBLE METAL CONDUIT
FMT	FLEXIBLE METAL TUBING
GND	GROUND (ELECTRICAL)
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GWH	GAS WATER HEATER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE LIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM LIGHT
HZ	HERTZ (ELECTRICAL)
ICAN	ICANDESCENT LIGHT
ICCB	INSOLATED CASE CIRCUIT BREAKER
IGND	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LTG	LIGHT, LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	MAN HOLE
MH=X	MOUNTING HEIGHT, X IS HEIGHT IN FT
MLO	MAIN LUGS ONLY
N, NEUT	NEUTRAL (ELECTRICAL)
NEC	NATIONAL ELECTRICAL CODE)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT (UNSWITCHED)
P	POLE
PB	PULL BOX
PB#	POLE BASE#
PCB	POWER CIRCUIT BREAKER
PH	PHASE (ELECTRICAL)
PNL	PANEL
PNLB	PANELBOARD
PVC	PLASTIC CONDUIT
PWR	POWER (ELECTRICAL)
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RTU	ROOF TOP UNIT (HVAC)
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SH	SHIELDED
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V, VAC	VOLT, VOLT AC
W	WATT
WP	WEATHERPROOF
XFMR	POWER TRANSFORMER

LIGHTING PLAN LEGEND

A-1:3	HOME RUN TO PANEL A... SHALL BE #10 AWG, 3/4"C. MINIMUM. WIRING HOME RUN: LETTER INDICATES PANEL; NUMBER IS BRANCH CIRCUIT(S)
	GROUNDING CONDUCTOR.
	CONDUIT IN/UNDER SL...
	CONDUIT CAP
S L	CONDUIT FOR STREET LIGHTS...
COMM	CONDUIT FOR COMM/...
ELEC	CONDUIT FOR ELECTRIC SERVICE = 2-4"C (UON)
PWR	CONDUIT FOR MEDIUM VOLTAGE = 6"C (UON) (QUANTITY AS NOTED ON DRAWINGS)
DN	CONDUIT STUB-DOWN
UP	CONDUIT STUB-UP
A MH: 37.5	POLE-MOUNTED LUMINARIE A=TYPE MH= MOUNTING HEIGHT
	STREET LIGHT/SECONDARY PULLBOX (SIZED AS SPECIFIED)
	TRANSFORMER PAD (SIZED AS SPECIFIED)
	OUC MANHOLE (SIZED AS SPECIFIED)
	PULLBOX/HANDHOLE (SIZED AS SPECIFIED)
	POWER/TELEPHONE POLE (SIZED AS SPECIFIED)
	POST-MOUNTED ELECTRICAL SERVICE EQUIPMENT
WP	WEATHERPROOF, GFI DUPLEX RECEPTACLE
	ELECTRICAL INSTALLATION
JB	WEATHERPROOF IN-GROUND 12"X15"JUNCTION BOX
J	WEATHERPROOF IN-GROUND OR POLE-MOUNTED JUNCTION BOX (SIZE PER NEC)

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION#: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25
All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.
NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

RECEIVED
Marion County
Office of County Engineer

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Cabral Engineering Inc
Engineering – Consulting – Project Management
1058 Palm Cove Dr, Orlando, FL 32835
(321) 246 – 4041 C.A. No. 33227

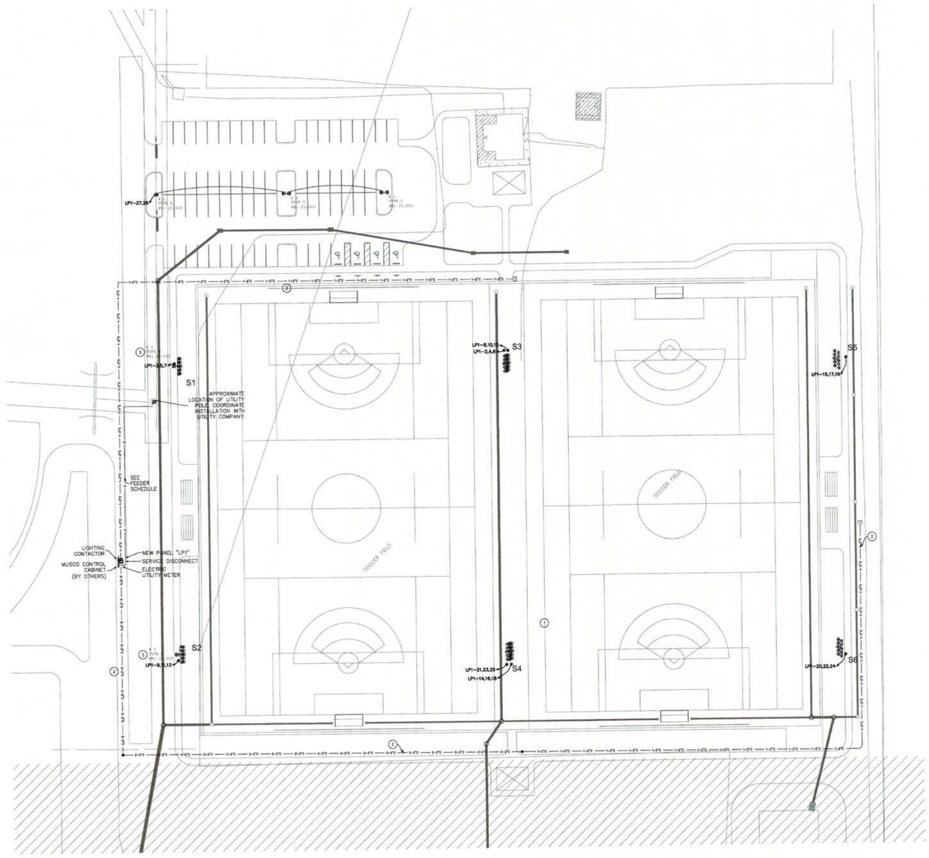
FRANCISCO J CABRAL LICENSE No. 87110 STATE OF FLORIDA PROFESSIONAL ENGINEER
FRANCISCO J CABRAL–FL PE#87110

CEI PROJECT	22.57
DATE	04/17/2023
SCALE	AS SHOWN
DESIGNED BY	FC
DRAWN BY	MC
CHECKED BY	FC

GENERAL NOTES, SPECIFICATIONS AND LEGENDS

ROTARY SPORTSPLEX OF MARION COUNTY SOCCER FIELDS
5220 SE MARICAMP RD, OCALA, FL 34480

SHEET NUMBER
E001



1 E101 SITE ELECTRICAL AND LIGHTING PLAN

0 20' 40' 80' 120'

1" = 40' 0"

N

GENERAL NOTES

1. LIGHT FIXTURE SYMBOLS ARE NOT TO SCALE. THEY ARE SHOWN LARGER FOR CLARITY AND EASE OF IDENTIFICATION. CONTRACTOR SHALL COORDINATE INSTALLATION ORIENTATION WITH LANDSCAPE ARCHITECT.
2. SEE PANEL SCHEDULES FOR CONDUCTOR SIZE.
3. WHERE REQUIRED BY INSTALLATION ENVIRONMENT, ALL POWER CONDUCTORS SHALL BE COPPER WITH XHHW-2 INSULATION.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL VERIFY CONDITIONS AND COMPOSITION OF THE EXISTING UTILITIES PRIOR TO COMMENCING WORK.
5. ALL CONDUIT ROUTING SHOWN ON PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY REQUIREMENTS WITH THE UTILITY. CONTRACTOR SHALL VERIFY THOSE REQUIREMENTS BEFORE PROCURING CONDUITS.
6. COORDINATE THE FINAL ROUTING OF NEW UNDERGROUND UTILITIES WITH EXISTING UTILITIES AS WELL AS NEW PROPOSED UTILITIES PROVIDED AS PART OF THIS PACKAGE.
7. DO NOT ROUTE NEW CABLES/CONDUITS DIRECTLY BELOW THE ROOT BALLS OF PROPOSED TREES. COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH PROPOSED LANDSCAPING.
8. CONTRACTOR SHALL CONSULT CIVIL DRAWINGS FOR ELEVATION AND DIAMETER OF EXISTING AND PROPOSED PIPES.
9. ALL SITE LIGHTING FIXTURES SHALL BE WIRED VIA LIGHT POLE JUNCTION BOX. NOT SHOWN FOR CLARITY. SEE DETAILS ON SHEET E701.
10. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE WIRED VIA LIGHTING CONTACTOR.
11. SEE LUMINAIRE SCHEDULE FOR LIGHTING FIXTURE CONFIGURATIONS.
12. CONTRACTOR SHALL CONSULT OWNER FOR ALL FIXTURE/POLE COLOR SELECTIONS.
13. CONTRACTOR SHALL CONTACT DANNY SHELDON (MUSCO) AT 352-665-0578, DANNY.SHELDON@MUSCO.COM, FOR SOCCER FIELD LIGHTING CONTROL SPECIFICATIONS.
14. HATCHED AREA NOT IN SCOPE.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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KEYED NOTES (X)

1. ELECTRICAL INSTALLATION. SEE SHEET E701 FOR DETAILS.
2. CONDUIT FOR FUTURE USE. CAP CONDUIT AS REQUIRED.
3. TYPE "B" LIGHT FIXTURES #4 AND #5 TO BE POWERED AND CONTROLLED BY MUSCO CABINET.

No.	REVISIONS	DATE	BY

Cabral Engineering Inc
Engineering – Consulting – Project Management
1058 Palm Cove Dr, Orlando, FL 32835
(321) 246 - 4041 C.A. No. 33227

FRANCISCO J CABRAL LICENSE No. 87110 STATE OF FLORIDA PROFESSIONAL ENGINEER

FRANCISCO J CABRAL-FL PE#87110

CEI PROJECT 22.57
DATE 04/17/2023
SCALE AS SHOWN
DESIGNED BY FC
DRAWN BY MC
CHECKED BY FC

SITE ELECTRICAL AND LIGHTING PLAN

ROTARY SPORTSPLEX OF MARION COUNTY SOCCER FIELDS

5220 SE MARICAMP RD, OCALA, FL 34480

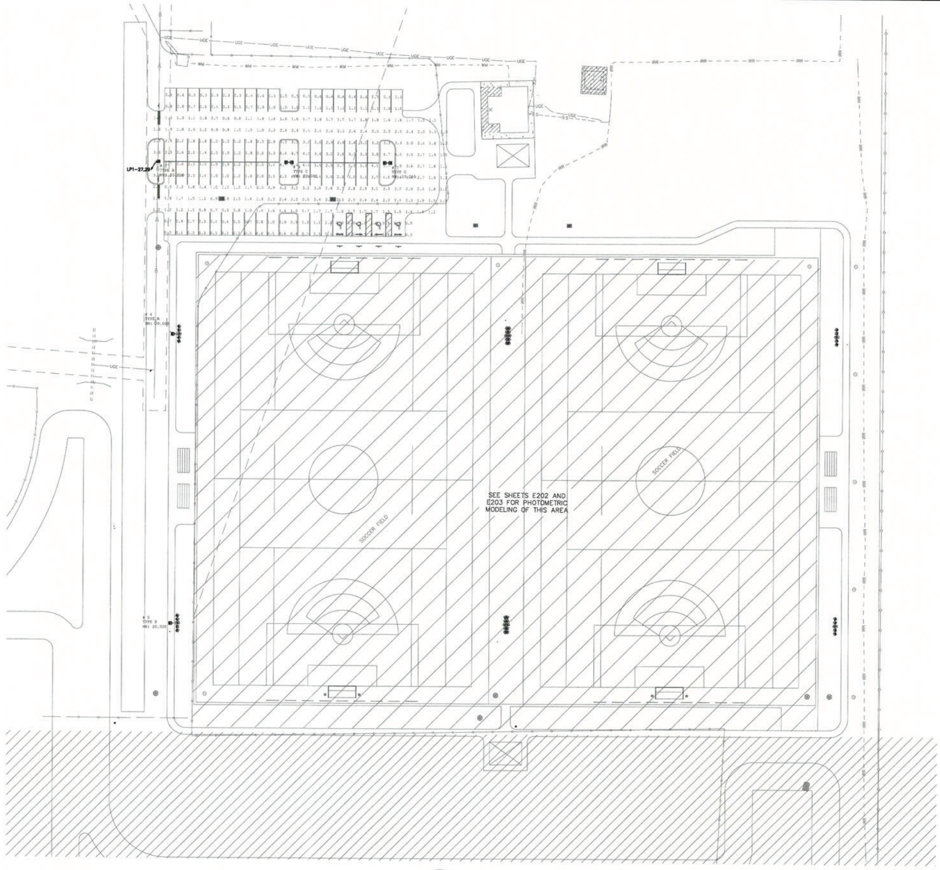
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1 / E201 PHOTOMETRIC PLAN

0 20' 40' 80' 120'

1" = 40' 0"

N

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Proposed Parking	Illuminance	Fc	1.81	5.7	0.3	6.03	19.00

Photometric Model Parameters							
Symbol	Tag	Qty	Label	LLF	Lum. Watts	Description	[MANUFAC]
	B	2	NV-1-T3-48L-7-40K-HSS	1.000	104	NV-1-T3-48L-7-40K-UNV-HSS	NLS Lighting LLC
	C	2	NV-1-T5-48L-7-40K_DOUBLE	1.000	104	NV-1-T5-48L-7-40K	NLS Lighting, LLC
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

GENERAL NOTES

1. LIGHT FIXTURE [illegible] SCALE. THEY ARE SHOWN LARGER FOR CLARITY AND EASE OF IDENTIFICATION. CONTRACTOR SHALL COORDINATE INSTALLATION ORIENTATION WITH LANDSCAPE A[illegible].
2. SEE PANEL SCHEDULES FOR CONDUCTOR SIZE.
3. WHERE REQUIRED BY INSTALLATION ENVIRONMENT, ALL POWER CONDUCTORS SHALL BE CO[illegible] INSULATION.
4. THE LOCATION [illegible] UTILITIES ARE [illegible] MANNER ONL[illegible] CONDITIONS A[illegible]COMPOSITION OF THE EXISTING UTILITIES PRIOR TO COMMENCING WORK.
5. ALL CONDUIT [illegible] ARE DIAGRAM[illegible] VERIFY AND [illegible] REQUIREMENT[illegible] CONTRACTOR SHALL VERIFY THOSE REQUIREMENTS BEFORE PROCURING CONDUITS.
6. COORDINATE THE FINAL ROUTING OF NEW UNDERGROUND UTILITIES WITH EXISTING UTILITIES AS WELL AS NEW PROPOSED UTILITIES PROVIDED AS PART OF THIS PACKAGE.
7. DO NOT ROUTE NEW CABLES/CONDUITS DIRECTLY BELOW THE ROOT BALLS OF PROPOSED TREES. COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH PROPOSED LANDSCAPING.
8. CONTRACTOR SHALL CONSULT CIVIL DRAWINGS FOR ELEVATION AND DIAMETER OF EXISTING AND PROPOSED PIPES.
9. ALL SITE LIGHTING FIXTURES SHALL BE WIRED VIA LIGHT POLE JUNCTION BOX. NOT SHOWN FOR CLARITY. SEE DETAILS ON SHEET E701.
10. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE WIRED VIA LIGHTING CONTACTOR.
11. SEE LUMINAIRE SCHEDULE FOR LIGHTING FIXTURE CONFIGURATIONS.
12. CONTRACTOR SHALL CONSULT OWNER FOR ALL FIXTURE/POLE COLOR SELECTIONS.
13. HATCHED AREA NOT IN SCOPE.

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CEI PROJECT 22.57
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PARKING LOT PHOTOMETRIC PLAN

ROTARY SPORTSPLEX OF MARION COUNTY SOCCER FIELDS
5220 SE MARICAMP RD, OCALA, FL 34480

SHEET NUMBER
E201

Rotary Sportsmple
OcalaF

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S1-S2	70'	70'	4	TLC-LED-1200	4.68 kW	A
		70'	1	TLC-LED-1500	1.41 kW	A
		30'	1	CREE OSQ	0.10 kW	C
S3-S4	70'	70'	4	TLC-LED-1200	4.68 kW	A
		70'	4	TLC-LED-1200	4.68 kW	B
		70'	1	TLC-LED-1500	1.41 kW	A
		70'	1	TLC-LED-1500	1.41 kW	B
S5-S6	70'	70'	4	TLC-LED-1200	4.68 kW	B
		70'	1	TLC-LED-1500	1.41 kW	B
6			42		48.93 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	West Soccer	24.36 kW	20
B	East Soccer	24.36 kW	20
C	Security	0.21 kW	2

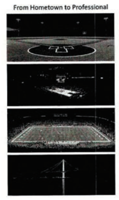
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	32
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	8
CREE OSQ	LED 5700K - 70 CRI	104W	15,930	–	–	–	2

Single Luminaire Amperage Draw Chart							
Driver (.90 min power factor)	Max Line Amperage Per Luminaire						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	5.9	5.5	5.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
Cree OSQ	-	-	-	-	0.3	-	0.2

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
East Soccer	Horizontal Illuminance	30.3	23.5	40	1.70	1.29	B	20
Security	Horizontal Illuminance	0.61	0	3	538.01		C	2
West Soccer	Horizontal Illuminance	30.1	23.6	40	1.69	1.28	A	20

From Hometown to Professional



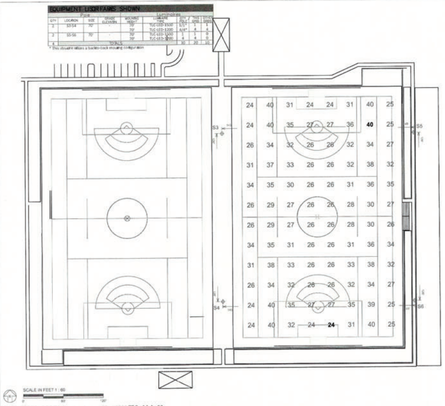
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ENGINEERED DESIGN By: Curt Lambrson · File #670375C · 14-Apr-23

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S3-S4	70'	-	70'	TLC-LED-1500	1/1*	1	1
				70'	TLC-LED-1200	4/4*	4	4
2	S5-S6	70'	-	70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-1200	4	4	0
4	TOTALS					30	20	10

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

Rotary Sportsmple
OcalaF

GRID SUMMARY
Name: East Soccer

ILLUMINATION SUMMARY
MAINTAINED HORIZONTAL FOOTCANDLES
Scan Average: 30.30
Maximum: 40.0
Minimum: 23.5
No. of Points: 96
LUMINAIRE INFORMATION
Applied Circuits: B
No. of Luminaires: 20
Total Load: 24.36 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

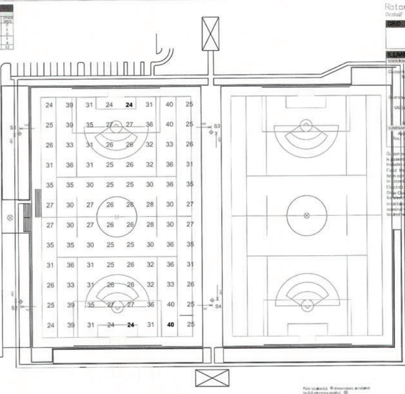
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'	-	70'	TLC-LED-1500	1	1	0
				30'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
2	S3-S4	70'	-	70'	TLC-LED-1500	1/1*	1	1
				70'	TLC-LED-1200	4/4*	4	4
4	TOTALS					32	20	12

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

Rotary Sportsmple
OcalaF

GRID SUMMARY
Name: West Soccer
Size: 360' x 225'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
MAINTAINED HORIZONTAL FOOTCANDLES
Entire Grid
Guaranteed Average: [redacted]
Scan Average: 30.13
Maximum: 40.0
Minimum: 23.6
Avg / Min: 1.27
Guaranteed Max / Min: [redacted]
Max / Min: 1.69
UG (adjacent pts): 1.63
CU: 0.82
CV: 0.16
No. of Points: 96
LUMINAIRE INFORMATION
Applied Circuits: A
No. of Luminaires: 20
Total Load: 24.36 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

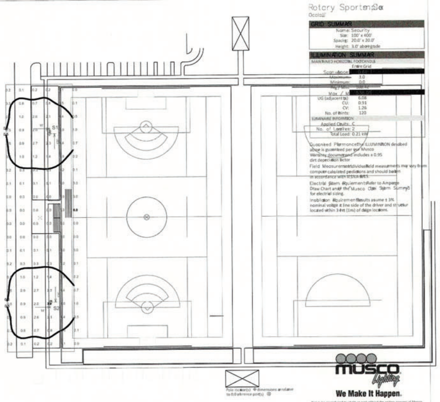
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'	-	70'	TLC-LED-1500	1	0	1
				30'	CREE OSQ	1	1	0
				70'	TLC-LED-1200	4	0	4
2	TOTALS					12	2	10



NOTES: BLUE CONTOUR LINE REPRESENTS 0.5FC

SCALE IN FEET 1 : 60

Rotary Sportsmple
OcalaF

GRID SUMMARY
Name: Security
Size: 100' x 400'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
MAINTAINED HORIZONTAL FOOTCANDLES
Entire Grid
Scan Average: [redacted]
Maximum: 3.0
Minimum: 0.0
Max / Min: [redacted]
UG (adjacent pts): 6.08
CU: 0.91
CV: 1.26
No. of Points: 120
LUMINAIRE INFORMATION
Applied Circuits: C
No. of Luminaires: 2
Total Load: 0.21 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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GENERAL NOTES

1. SOCCER FIELD PHOTOMETRIC MODELING COMPLETE... FOR REFERENCE ONLY.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the site disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or [redacted]

NOTICE
The approval of these plans is limited to [redacted] of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

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FRANCISCO J CABRAL–FL PE#87110

CEI PROJECT 22.57
DATE 04/17/2023
SCALE AS SHOWN
DESIGNED BY FC
DRAWN BY MC
CHECKED BY FC

SOCCER FIELDS
PHOTOMETRIC PLANS

ROTARY SPORTSPLEX OF MARION COUNTY
SOCCER FIELDS
5220 SE MARICAMP RD, OCALA, FL 34480

SHEET NUMBER
E202

GENERAL NOTES

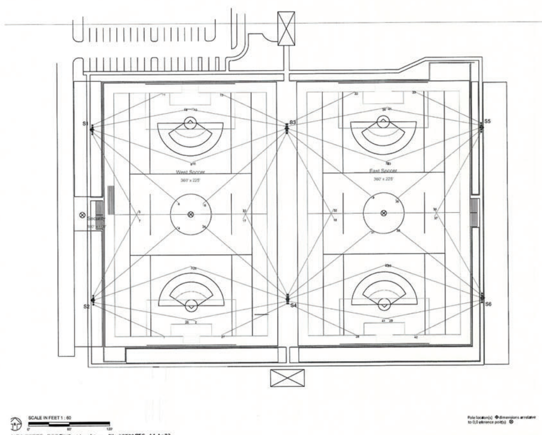
1. SOCCER FIELD PHOTOMETRIC MODELING COMPLETED BY MUSCO LIGHTING. FOR REFERENCE ONLY.

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MARION COUNTY, FLORIDA

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Rotary Sportsplex
Ocala,FL

EQUIPMENT LAYOUT

INCLUDES:
- East Soccer
- Security
- West Soccer

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	CLASS	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	S1-S2	LSS70C	-	70' 30' 70'	TLC-LED-1500 CREE OSQ TLC-LED-1200	1 1 4
2	S3-S4	LSS70D	-	70' 70'	TLC-LED-1500 TLC-LED-1200	1/1* 4/4*
2	S5-S6	LSS70C	-	70' 70'	TLC-LED-1500 TLC-LED-1200	1 4
6	TOTALS					42

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
Cree OSQ	-	-	-	-	0.3	-	0.2

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

MUSCO Lighting
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SOCCER FIELDS
PHOTOMETRIC PLANS

ROTARY SPORTSPLEX
OF MARION COUNTY
SOCCER FIELDS

5220 SE MARICAMP RD, OCALA, FL 34480

SHEET NUMBER
E203

208V SINGLE PHASE CIRCUIT LENGTH

BREAKER AMPACITY (AMPS)	MAX CIRCUIT LOAD (AMPS)	MAX LENGTH (FT)											
		#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	#3 AWG	#2 AWG	#1 AWG	1/O	2/O	3/O	4/O
20	4	378	584	928	1496	-	-	-	-	-	-	-	-
20	8	189	292	464	739	-	-	-	-	-	-	-	-
20	12	120	189	309	498	774	-	-	-	-	-	-	-
20	16	86	137	223	361	584	-	-	-	-	-	-	-
30	24	-	86	154	240	395	500	-	-	-	-	-	-
40	32	-	-	120	189	292	370	460	580	-	-	-	-
50	40	-	-	86	137	240	300	360	460	620	-	-	-
60	48	-	-	-	120	189	250	310	385	520	610	760	-
70	56	-	-	-	-	172	210	260	335	445	515	655	825
80	64	-	-	-	-	150	185	230	290	380	450	575	725
90	72	-	-	-	-	-	162	200	260	340	400	510	640
100	80	-	-	-	-	-	148	185	230	310	365	460	580
110	88	-	-	-	-	-	-	165	210	280	330	420	525
125	100	-	-	-	-	-	-	-	180	245	290	365	460
150	120	-	-	-	-	-	-	-	-	205	240	310	385

NOTE:
1. FOR 240V SINGLE PHASE, MULTIPLY LENGTH BY 1.15.
2. FOR 277V SINGLE PHASE, MULTIPLY LENGTH BY 1.32.
3. FOR 480V SINGLE PHASE, MULTIPLY LENGTH BY 2.3.

208V THREE PHASE CIRCUIT LENGTH

BREAKER AMPACITY (AMPS)	MAX CIRCUIT LOAD (AMPS)	MAX LENGTH (FT)											
		#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	#3 AWG	#2 AWG	#1 AWG	1/O	2/O	3/O	4/O
20	4	421	649	1040	-	-	-	-	-	-	-	-	-
20	8	210	325	520	832	-	-	-	-	-	-	-	-
20	12	134	210	347	561	875	-	-	-	-	-	-	-
20	16	96	153	250	407	660	-	-	-	-	-	-	-
30	24	-	96	173	270	447	568	-	-	-	-	-	-
40	32	-	-	135	213	330	420	525	662	-	-	-	-
50	40	-	-	97	155	272	341	411	525	707	-	-	-
60	48	-	-	-	135	214	284	354	439	593	697	868	-
70	56	-	-	-	-	195	239	297	382	508	589	749	946
80	64	-	-	-	-	170	210	263	331	434	514	657	831
90	72	-	-	-	-	-	184	228	297	388	457	583	734
100	80	-	-	-	-	-	168	211	263	354	417	526	665
110	88	-	-	-	-	-	-	189	240	320	377	480	602
125	100	-	-	-	-	-	-	-	206	280	332	417	528
150	120	-	-	-	-	-	-	-	-	234	275	355	442

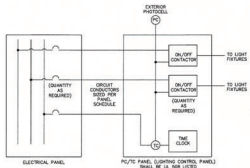
NOTE:
1. FOR 240V 3-PHASE, MULTIPLY LENGTH BY 1.15.
2. FOR 480V 3-PHASE, MULTIPLY LENGTH BY 2.3.

120V SINGLE PHASE CIRCUIT LENGTH

BREAKER AMPACITY (AMPS)	MAX CIRCUIT LOAD (AMPS)	MAX LENGTH (FT)				
		#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG
20	4	220	340	540	870	-
20	8	110	170	270	430	690
20	12	70	110	180	290	450
20	16	50	80	130	210	340
30	24	-	50	90	140	230
40	32	-	-	70	110	170
50	40	-	-	50	80	140
60	48	-	-	-	70	110
70	56	-	-	-	-	100

CIRCUIT NOTES

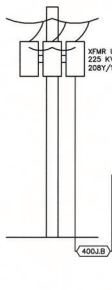
1. UON, CIRCUIT MAXIMUM DISTANCE IS BASE 50N NEC CHAPTER 9, TABLE 8 CONDUCTOR PROPERTIES FOR COATED COPPER CONDUCTORS AT 75 DEGREES CELSIUS. CONTRACTOR SHALL RECALCULATE AMPACITIES AND CIRCUIT LENGTHS WHEN USING ALUMINUM OR IF A DIFFERENT TEMP ADJUSTMENT IS REQUIRED.
2. BASED ON MAXIMUM 3% VOLTAGE DROP.
3. BASED ON UP TO 3 CURRENT-CARRYING CONDUCTORS IN A RACEWAY. CONTRACTOR SHALL DE-RATE PER NEC IF INSTALLING MORE THAN 3 CURRENT-CARRYING CONDUCTORS IN A SINGLE RACEWAY.
4. CONTRACTOR SHALL SIZE CONDUIT BASED ON TYPE FOR A MAXFILL OF 40%.
5. CONTRACTOR SHALL SIZE GROUND CONDUCTOR PER NEC AND INCREASE AS REQUIRED FOR VOLTAGE DROP.



2 E701 PC/TC PANEL DIAGRAM N.T.S.

LIGHT CONTROL NOTES

1. FURNISH ALL LABOR AND MATERIAL REQUIRED FOR A COMPLETE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL COORDINATE WITH EH MANUFACTURER AND PROVIDE ANY ALL SERVICE HOURS BY THE MANUFACTURER'S SERVICE REPRESENTATIVE IN ORDER TO PROGRAM THE LIGHTING CONTROL PANEL AND CERTIFY CLOSE OUT DOCUMENTS. SITE LIGHTING CONTROLS SHALL MEET THE REQUIREMENTS OF NEMA LSC 1-2010. ALL ENCLOSURES SHALL BE HINGED DOOR, NEMA 3R RATED, UNLESS INSTALLED INDOORS.
2. CONTRACTOR SHALL CONSULT OWNER AND/OR LANDSCAPE ARCHITECT FOR DESIRED OPERATION SCHEME.
3. PHOTOCELL CONTROLLED (PC) LIGHTING SHALL TURN ON AND OFF BASED ON THE AUTOMATIC LIGHT SENSOR SWITCH (PHOTOCELL). INCLUDE A TIME DELAY FEATURE TO PREVENT INTERMITTENT SWITCHING. PHOTOCELL SHALL BE CONDUIT MOUNTED ON THE SIDE OF THE SERVICE EQUIPMENT FACING NORTH. USE TORK #2101 OR EQUAL.
4. CIRCUIT BREAKERS FEEDING LIGHTING CIRCUITS ARE SHOWN ON THE PANEL SCHEDULES AND PROVIDE OVERCURRENT AND SHORT CIRCUIT PROTECTION. SWITCHING IS CONTROLLED BY THE LIGHTING RELAYS IN THE CONTROL PANEL. EACH CIRCUIT SHALL HAVE ITS OWN RELAY.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30224
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All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE PANEL
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute for or waive the requirements of other agencies having additional jurisdiction as applicable, by municipal, state or federal law.

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Marion County
Office of County Engineer

208Y/120V
3P 4W

ELECTRICAL RISER DIAGRAM NOTES

1. UON, ALL CONDUCTORS SHALL BE COPPER.
2. COORDINATE INSTALLATION AND ALL REQUIREMENTS WITH UTILITY COMPANY
3. CONTRACTOR SHALL NOT USE CALCULATION LENGTHS TO ORDER CONDUIT AND/OR CONDUCTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENOUGH MATERIAL FOR A COMPLETE INSTALLATION.

SHORT CIRCUIT NOTES NOTES

1. UTILITY TRANSFORMER FAULT CURRENT VALUE OBTAINED FROM DUKE ENERGY REQUIREMENTS PUBLICATION DATED 4/1/2021.
2. CONTRACTOR SHALL REPORT TO ENGINEER IF FINAL LENGTHS ARE SIGNIFICANTLY SHORTER THAN THE FOOTAGE SHOWN ON DRAWINGS AS THIS CHANGE MAY AFFECT THE SHORT CIRCUIT RATING OF DOWNSTREAM EQUIPMENT.
3. SCA REPRESENTS THE MINIMUM REQUIRED SHORT-CIRCUIT RATING FOR EQUIPMENT.

VOLTAGE DROP NOTES

1. CONTRACTOR SHALL NOT USE DISTANCES USED FOR CALCULATING VOLTAGE DROP TO ESTIMATE PRICING (TAKEOFFS). CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DISTANCES AND VOLTAGE DROP VERIFICATION IF THE ACTUAL DISTANCE IS GREATER THAN SHOWN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MATERIAL FOR A COMPLETE INSTALLATION.

3 E701 ELECTRICAL RISER DIAGRAM N.T.S.

FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER	CONDUIT SIZE
400.A	400	(2)#2-1/2"C,3#250kcmil AL,#250kcmil AL N,#2G	2-1/2"C
400.B	400	(2)#2-1/2"C,3#250kcmil AL,#250kcmil AL N,#2G	2-1/2"C

USE CU GROUNDS

FAULT CURRENT SCHEDULE

DEVICE	FAULT	AIC RATING	L-L VOLTS	FEEDER		TRANSFORMER		
				SIZE	LENGTH	KVA	Z%	FAULT AT PRIMARY
UTIL XFRM	31,246	65,000	208V			225	2	UTILITY
SVC DISC	11,148	35,000	208V	(2)#250kcmil AL	170'			
LP1	10,617	35,000	208V	(2)#250kcmil AL	12'			

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER		
	VOLTAGE DROP	WIRE SIZE	LENGTH
SVC DISC	2.12%	(2)#250kcmil AL	170'
LP1	2.27%	(2)#250kcmil AL	12'

LP1

ROOM
MOUNTING SURFACE
FED FROM SVC DISC
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 35,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD AMPS A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD AMPS A	B	C
1	20/1	PKNG LIGHTING	4.33			2	40/3	EAST SOCCER S3	25.2		
3	40/3	EAST SOCCER S1		25.2		4	|			25.2	
5	|				25.2	6	|				25.2
7	|		25.2			8	40/3	WEST SOCCER S3	25.2		
9	40/3	EAST SOCCER S2		25.2		10	|			25.2	
11	|				25.2	12	|				25.2
13	|		25.2			14	40/3	WEST SOCCER S4	25.2		
15	40/3	WEST SOCCER S5		25.2		16	|			25.2	
17	|				25.2	18	|				25.2
19	|		25.2			20	40/3	WEST SOCCER S6	25.2		
21	40/3	EAST SOCCER S4		25.2		22	|			25.2	
23	|				25.2	24	|				25.2
25	|		25.2			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	MUSCO CONTROL CABINET		16.7	
35	20/1	SPACE			0	36	20/1	SVCE RECEPTACLE			1.5
37	20/1	SPACE	0			38	30/3	SPD	0		
39	20/1	SPACE		0		40	|			0	
41	20/1	SPACE			0	42	|				0
								TOTAL CONNECTED KVA BY PHASE	24.7	26.2	24.4

	CONN AMPS	CALC AMPS			CALC AMPS
LIGHTING	203	254	(125%)	TOTAL LOAD	260
RECEPTACLES	6.05	6.05	(50%>10)		

LUMINAIRE SCHEDULE

TAG	SYMBOL	MH (FT)	MOUNTING	MODEL	INPUT WATTS	VOLTS	MANUF	QUANTITY
TYPE A		20	POLE	NV-1-T5-48L-7-40K	104	120V 1P 2W	NLS LIGHTING	3
TYPE B		20	POLE	NV-1-T5-48L-7-40K-HSS	104	120V 1P 2W	NLS LIGHTING	2

Cabral Engineering Inc
Engineering – Consulting – Project Management
1108 S Park Cove Dr, Orlando, FL 32835
(321) 439-1490 – CA No. 32957

LICENSED PROFESSIONAL ENGINEER No. 87110 STATE OF FLORIDA FRANCISCO J CABRAL

BY	DATE	No.	REVISIONS

CE1 PROJECT 22.57
DATE 04/17/2023
SCALE AS SHOWN
DESIGNED BY FC
DRAWN BY MC
CHECKED BY FC

ELECTRICAL DIAGRAMS, SCHEDULES AND DETAILS

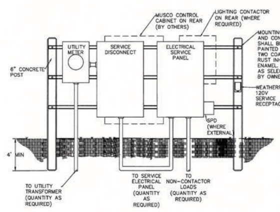
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SHEET NUMBER
E701

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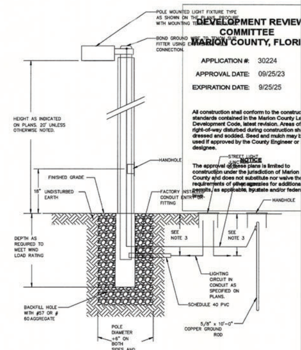
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DETAIL NOTES:

1. ALL EQUIPMENT SHALL BE FROM UTILITY–APPROVED LIST.
2. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL HAVE A MINIMUM NEMA 3R RATING.
3. CONTRACTOR MAY RE–ARRANGE EQUIPMENT IN RACK IN ORDER TO EASE INSTALLATION AND/OR OPERATION.
4. SERVICE EQUIPMENT MAY BE WALL–MOUNTED. CONSULT WITH OWNER FOR PREFERENCE
5. ALL EQUIPMENT SHALL BE MOUNTED AT THE HEIGHT REQUIRED BY UTILITY AND/OR AHJ.

5 / E702 ELECTRICAL SERVICE SUGGESTED INSTALLATION
N.T.S.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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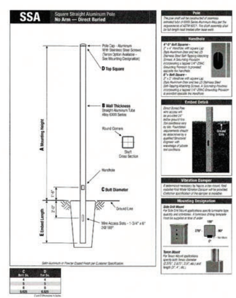
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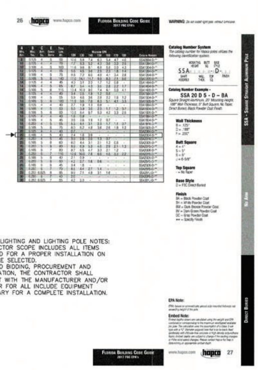
NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

POLE MOUNTED FIXTURE NOTES

1. WHERE STRUCTURAL DRAWINGS ARE NOT PROVIDED, WIND RATINGS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE FBC. POLE, BASE, ANCHOR BOLT AND LIGHT FIXTURE ASSEMBLY SHALL CERTIFIED BY THE MANUFACTURER FOR THE WIND GUST RATING. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A FLORIDA LICENSED STRUCTURAL ENGINEER TO PROVIDE SIGNED AND SEALED CALCULATIONS AND DRAWINGS CERTIFYING THE POLE MOUNTED LIGHT FIXTURE DETAIL AND/OR MODIFYING THE DETAIL AS REQUIRED TO MEET THE WIND GUST RATINGS PER THE FBC.
2. INSTALL SITE LIGHTING AS INDICATED, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, NEC AND AHJ STANDARDS.
3. DEPTH MUST COMPLY WITH PER NEC 300.5.
4. PROVIDE AN 10'X15' IN–GROUND JUNCTION BOX SET AT EACH POLE. SEE DETAIL #5/E901.
5. PROVIDE SUFFICIENT SPACE ENCOMPASSING HAND ACCESS AND CABLE ENTRANCE HOLES FOR INSTALLATION OF UNDERGROUND CABLES.
6. PROVIDE BUSSMAN HEB FUSEHOLDER (LITTLEFUSE LEB–XX–S) WITH BREAKAWAY RECEPTACLES IN ALL CONDUCTOR RUNNING TO THE TOP OF THE POLE. LOCATE FUSE HOLDER AT HAND HOLE OR IN BASE JUNCTION BOX AS APPLICABLE. PROVIDE KTK FUSES IN EACH PHASE CONDUCTOR, SIZED 1.5 TIMES THE MAXIMUM FULL LOAD CURRENT OF DRIVER SERVED BY EACH CONDUCTOR. DO NOT EXCEED RATING OF CIRCUIT OVERCURRENT PROTECTIVE DEVICE. PROVIDE FUSE BLANKS IN NEUTRAL CONDUCTORS. MAKE UP ALL OTHER SPLICES IN POLE OR POLE BASE USING SCOTCHCAST 400 RESIN FOR WATERTIGHT CONNECTION.
7. PROVIDE EQUIPMENT GROUNDING CONNECTIONS FOR EACH POLE MOUNTED LIGHT FIXTURE INSTALLATION.
8. ALL HARDWARE SHALL BE STAINLESS STEEL.
9. ALL LIGHT FIXTURES SHALL BE FULL CUT–OFF. SEE LIGHT SCHEDULE FOR MODELS.
10. CONTRACTOR SHALL PROCURE ALL REQUIRED MOUNTING HARDWARE.

2 / E702 POLE INSTALLATION DETAIL
N.T.S.



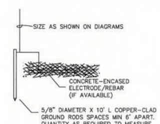


STREET/SITE LIGHTING AND LIGHTING POLE NOTES:
1. CONTRACTOR SCOPE INCLUDES ALL ITEMS REQUIRED FOR A PROPER INSTALLATION ON THE POLE SELECTED.
2. PRIOR TO BIDDING, PROCUREMENT AND INSTALLATION, THE CONTRACTOR SHALL CONSULT WITH THE MANUFACTURER AND/OR SUPPLIER FOR ALL INCLUDE EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION.

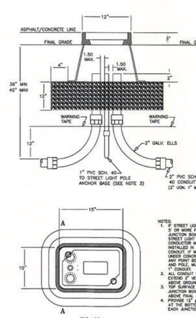
6 / E702 POLE FOR FIXTURE TYPE A
N.T.S.



4 / E702 FIXTURE A1, A2
N.T.S.



3 / E702 GROUNDING DETAIL
N.T.S.



NOTES:
1. IF STREET LIGHT POLE IS 5' OR MORE FROM JUNCTION BOX, THE STREET LIGHT CONDUCTOR MUST BE INSTALLED IN A 1" CONDUIT. IF WIRES ARE UNDER CONCRETE AT ANY POINT BETWEEN BOX AND POLE, MUST BE IN 1" CONDUIT.
2. ALL CONDUIT SHALL EXTEND 2" VERTICALLY ABOVE GROUND.
3. TOP SURFACE OF JUNCTION BOX TO BE 3" ABOVE FINAL GRADE.
4. PROVIDE 12" #57 ROCK AT THE BOTTOM OF EACH JUNCTION BOX.

1 / E702 STREET/SITE LIGHT JUNCTION BOX
N.T.S.

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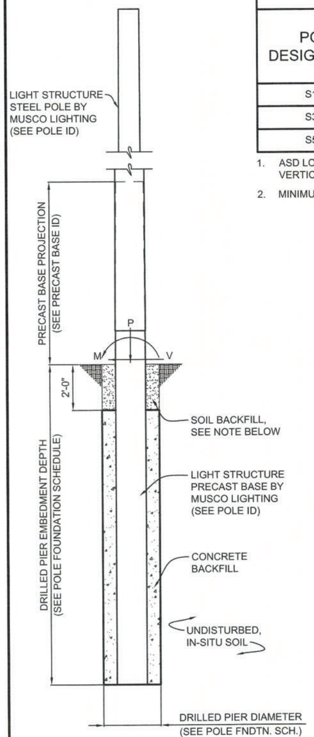
FRANCISCO J CABRAL LICENSE No. 87110 STATE OF FLORIDA PROFESSIONAL ENGINEER
FRANCISCO J CABRAL–FL PE#87110

CEI PROJECT 22.57
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DRAWN BY MC
CHECKED BY FC

ELECTRICAL DIAGRAMS, SCHEDULES AND DETAILS

ROTARY SPORTSPLEX OF MARION COUNTY SOCCER FIELDS
5220 SE MARICAMP RD, OCALA, FL 34480

SHEET NUMBER
E702



POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS 4 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D698).

POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1.)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD^3 (2.)
S1, S2	79,865	1,827	2,136	30	14'-0"	1.6
S3, S4	113,693	2,426	3,319	30	16'-0"	1.7
S5, S6	79,144	1,805	2,056	30	14'-0"	1.6

1. ASD LOAD COMBINATION D + 0.6W.
   VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
4B	3,490 LBS	22'-0"	8'-0"	14'-0"	15.75"
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT^2)
S1, S2	LSS70C	4B	6 (5)	13.0
S3, S4	LSS70D	5B	10 (5) / (5)	23.3
S5, S6	LSS70C	4B	5 (5)	12.2

- POLES S1 & S2 HAVE (1) CREE OSQ FIXTURE AT 30'-0" AGL INCLUDED ABOVE.

DESIGN NOTES

DESIGN PARAMETERS:
WIND: V_{ult} = 130 MPH, V_{asd} = 101 MPH (EXPOSURE C, RISK CATEGORY II)
PER FBC, 2020 EDITION (ASCE 7-16), SECTION 1609
DESIGN WIND PARAMETERS ARE AS NOTED. ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2,500 PSF
LATERAL SOIL RESISTANCE PARAMETERS:
AS PROVIDED IN GEOTECHNICAL REPORT TABLES, PAGES 9-11
IN ACCORDANCE WITH THE 2020 EDITION OF THE FLORIDA BUILDING CODE, CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE GEOTECHNICAL INVESTIGATION REPORT, NO. CPGT-23-081, PREPARED BY ANDREYEV ENGINEERING, INC.; CLERMONT, FL.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
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NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

KYLE G. LACINA LICENSE NO. 62692 STATE OF FLORIDA PROFESSIONAL ENGINEER
Kyle G. Lacina
Digitally signed by Kyle G. Lacina
Date: 2023.04.28 14:12:37 -05'00'
04/28/2023

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KYLE G. LACINA ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KYLE G. LACINA - NO. PE 62692
LICENSE RENEWAL DATE: FEBRUARY 28, 2025

STRUCTURAL ENGINEERS, P.C. - NO. 26361

DRAWING NO. COVERED BY THIS SEAL: S101

ROTARY SPORTS COMPLEX
FIELD LIGHTING
OCALA, FL

MUSCO Lighting
CORPORATE: 100 1st AVE WEST
OSKALOOSA, IA 52577
(800) 825-6020

STRUCTURAL ENGINEERS, P.C.
114 NICHOLAS DRIVE
MARSHALLTOWN, IOWA 50158
PHONE NUMBER: 641-752-6334
EMAIL: MSL.INFO@SEPC.BIZ

DRAWING TITLE: POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES: SCAN #67031375C

PROJECT NUMBER: 67031375
DATE: 28 APRIL 2023
DRAWING NUMBER: S101
OF ONE

USE OR REPRODUCTION OF THIS INFORMATION OTHER THAN ITS INTENDED PURPOSE FOR THIS PROJECT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM MUSCO SPORTS LIGHTING, LLC.

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NOV 18 2023
Marion County
Office of County Engineer

TOPOGRAPHIC SURVEY
-FOR-
MARION COUNTY

ROTARY SPORTSPLEX
SECTION 36, TOWNSHIP 15 SOUTH, RANGE 22 EAST
MARION COUNTY, FLORIDA

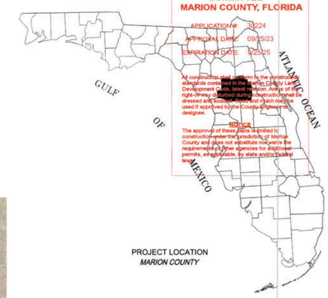
LEGEND

±	MORE OR LESS
A/C	AIR CONDITIONING UNIT
ACSM	AMERICAN CONGRESS ON SURVEYING & MAPPING
A.K.A.	ALSO KNOWN AS
ALTA	AMERICAN LAND TITLE ASSOCIATION
CCR	CERTIFIED CORNER RECORD
CONC	CONCRETE
EL	ELEVATION
FD	FOUND
LB	LICENSED BUSINESS
NO.	NUMBER
ID	IDENTIFICATION
ORB	OFFICIAL RECORDS BOOK
PID#	TAX PARCEL IDENTIFICATION NUMBER
PG.	PAGE
PB	PLAT BOOK
CMP	CORRUGATED METAL PIPE
NAVD	NORTH AMERICAN VERTICAL DATUM
NSPS	NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
ECP	ELLIPTICAL CONCRETE PIPE
BWF	BARBED WIRE FENCE
CLF	CHAIN LINK FENCE
WPF	WOOD PRIVACY FENCE
WRF	WOOD RAIL FENCE
OHU	OVERHEAD UTILITIES
C/L	CENTERLINE
CM	CONCRETE MONUMENT
IP	IRON PIPE
IR	IRON ROD
IRC	IRON ROD AND CAP
NOID	NO IDENTIFICATION
W/	WITH
	FOUND CONCRETE MONUMENT (AS NOTED)
	SANITARY MANHOLE
	SANITARY CLEANOUT
	SEWER VALVE
	STORM MANHOLE
	CATCH BASIN
	TELEPHONE MANHOLE
	WELL (SIZE NOTED)
	IRRIGATION CONTROL VALVE
	WATER METER
	WATER VALVE
	BACKFLOW PREVENTOR
	FIRE HYDRANT
	WATER SPIGOT
	CONCRETE UTILITY POLE
	METAL UTILITY POLE
	WOOD UTILITY POLE
	GUY ANCHOR
	LIGHT POLE
	SIGN
	BOLLARD
	ELECTRIC RISER
	ELECTRIC TRANSFORMER
	ELECTRIC METER
	CABLE TELEVISION RISER
	PULLBOX (ELECTRIC)
	PULLBOX (FIBER)
	PULLBOX (TELEPHONE)
	PULLBOX (TRAFFIC)
	PULLBOX (TELEVISION)
	TELEVISION RISER
	UNDERGROUND FIBER OPTIC CABLE MARKER
	UNDERGROUND GAS MARKER
	UNDERGROUND CABLE TELEVISION MARKER
	UNDERGROUND ELECTRIC MARKER
	UNDERGROUND TELEPHONE MARKER
	UNDERGROUND WATER LINE MARKER
	UNDERGROUND RECLAIM WATER LINE MARKER
	FLAG POLE
	MAILBOX
	GATE POST
	CHAIN LINK FENCE
	WOOD FENCE
	BARBED WIRE OR WIRE FENCE
OH	OVERHEAD UTILITY LINE
UGE	UNDERGROUND ELECTRIC
FM	UNDERGROUND FORCE MAIN
SS	UNDERGROUND SANITARY SEWER
G	UNDERGROUND GAS
IRR	UNDERGROUND IRRIGATION
RWL	UNDERGROUND RECLAIMED WATER LINE
UNK	UNDERGROUND UNKNOWN LINE
WM	UNDERGROUND WATER LINE
TB	TOP OF BANK
TS	TOE OF SLOPE
6	EXISTING CONTOUR
	CONCRETE AREA
	ASPHALT AREA
	LINE BREAK
× 10.00	SPOT ELEVATION (HARD SURFACE)
× 10.0	SPOT ELEVATION (GROUND)

TREE LEGEND:

(CALIPER NOTED INSIDE SYMBOL)
- LIVE OAK
- PINE





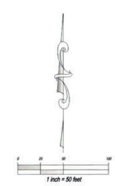
PROJECT LOCATION
MARION COUNTY

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION #: 30224
APPROVAL DATE: 09/25/23
EXPIRATION DATE: 9/25/25

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RECEIVED
2023
Marion County
Office of County Engineer



SURVEY NOTES:

1. THIS IS A TOPOGRAPHIC SURVEY AS DEFINED IN CHAPTER 5J-17.050 (11) FLORIDA ADMINISTRATIVE CODE AND IS NOT INTENDED TO BE A BOUNDARY SURVEY AS SUCH. LIMITED MONUMENTATION WAS FIELD LOCATED TO DEPICT AN APPROXIMATE BOUNDARY LINE FOR DESIGN PURPOSES.
2. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM (NAD) OF 1983 WITH 2011 ADJUSTMENT.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. EASEMENTS SHOWN HEREON ARE FROM A PREVIOUS SURVEY AND STATUS IS UNKNOWN.
4. WETLAND AREAS, IF EXISTING, WERE NOT ADDRESSED AS A PART OF THIS SURVEY.
5. UNDERGROUND UTILITIES WERE DESIGNATED BY HALFF ASSOCIATES, INC. AND LOCATED BY THIS FIRM AS A PART OF THIS SURVEY. NO SOFT DIG EXERCISES WERE PERFORMED TO VERIFY SIZE OR DEPTH OF A UTILITY.
6. THIS SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL OR ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
7. RECORDING REFERENCES (SUCH AS OFFICIAL RECORDS BOOK AND PAGE, AND PLAT BOOK AND PAGE) SHOWN HEREON, REFER TO DOCUMENTS RECORDED IN THE OFFICIAL RECORDS OF MARION COUNTY, FLORIDA.
8. ELEVATIONS SHOWN HEREON ARE PURSUANT TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND WERE ESTABLISHED BY GPS BASE/ROVER RTK METHODS. THE ORIGINATING BENCHMARK FOR THE ELEVATIONS DEPICTED HEREON IS NATIONAL GEODETIC SURVEY BENCHMARK V 508, SAID POINT BEING A SURVEY DISC SET IN TOP OF A CONCRETE MONUMENT (BAR MAGNET IMBEDDED IN MONUMENT) STAMPED "V 508 2001" AND HAVING AN ELEVATION OF 80.68 FEET.
9. THE AERIAL IMAGE DEPICTED HEREON IS DATED NOVEMBER 4, 2022 AND WAS OBTAINED UTILIZING A PHANTOM 4 RTK UNMANNED AERIAL SYSTEM (UAS). THE PHOTOGRAPHS WERE PROCESSED THROUGH PIX4D SOFTWARE AND CONSTRAINED TO GROUND CONTROL SET BY THIS FIRM. A COPY OF THE QUALITY REPORT CAN BE PROVIDED UPON REQUEST.
10. TOPOGRAPHIC LIMITS WERE SPECIFIED BY CLIENT.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE LDC AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS.

The seal appearing on this document was authorized by James H. Blair, PSM #6917 on 8/22/23

JAMES H. BLAIR, FLORIDA LICENSED SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 6917

CFB | CLYMER FARNER BARLEY SURVEYING

REVISIONS:	DATE
UPDATE CERTIFICATION	8/22/23 (JHB)

CLIENT: MARION COUNTY
JOB NO.: S07022.0004
DRAWING DATE: 11.30.2022
DATE OF SURVEY: 11.09.2022
DRAWN BY: LKC
CHECKED BY: HB
FIELD BOOK: V22, PAGE: 72

ROTARY SPORTSPLEX
SECTION 36, TOWNSHIP 15 SOUTH, RANGE 22 EAST
MARION COUNTY, FLORIDA

TOPOGRAPHIC SURVEY FOR MARION COUNTY

SHEET 01 OF 01