

# UNITY PARK + FLATWOODS TRAILHEAD 90% DESIGN SUBMITTAL

UNITY PARK SMU CALCULATIONS

Total Project Area Total Impervious Area

PREPARED BY: Stephen J. Kuhn; Dredging & Marine Consultants

		•	
SMU ID	Lowest Discharge Elevation (ft. NAVD)	Retention Volume Below Lowest Discharge Elevation (cubic ft.)	Retention Area at Lowest Discharge Elevation (square ft.)
Pond 1	168.00	8,090	6,657
Pond 2	168.00	2,056	909
Pond 3	168.00	7,757	3,700
Pond 4	168.00	3,209	1,368
Pond 5	168.00	1,986	795
Pond 6	167.50	1,563	1,203

Total

**0.804** acres

35,022 square feet

**Treatment Volume Required** 

1 inch over Project Area (3.3 Acres) 1.75 inches over Impervious (35,022 Sq. Ft.)

Ponds provide more than required treatment volume.

11,979 cubic feet (On Line Dry Retention Treatment System) 5,107 cubic feet

24.4 % Impervious Area

Storage Volume SMU ID Stage (ft NAVD) 166.50 167.00 Pond 1 167.50 4,972 168.00 8,090 166.50 167.00 531 Pond 2 167.50 1,217 2,056 166.50 167.00 2,095 Pond 3 167.50 4,681 168.00 7,757 166.50 167.00 813 Pond 4 167.50 1,882 168.00 3,209 166.50 167.00 Pond 5 167.50 1,148 168.00 1,986 166.50 167.00 Pond 6 167.50 1,563 168.00 2,614

Stage Storage Data for SMUs

Jeremy Marquis, RLA on the Date and/or Time Stamp

**図ML+H** 

Marquis Latimer + Halback, Inc 34 Cordova Street, Suite A

St. Augustine, FL 32084

HECKED BY:

PROJECT MANAGER: JM



# Design Team

# Marquis Latimer + Halback, Inc. Landscape Architecture

Project Manager: Jeremy Marquis | jeremy@halback.com Asst. Proj. Manager: Dustin Felix | dustin@halback.com 34 Cordova Street, Suite A, St. Augustine, FL 32084 LC0000391

Dredging & Marine Consultants

Project Manager: Shailesh Patel | spatel@dmces.com Asst. Proj. Manager: Steve Kuhn | skuhn@dmces.com 4643 S. Clyde Morris Blvd., Unit 320 Port Orange, FL 32129 Ph: 386.304.6505



Know what's below. Call 811 before you dig.

# Simes and Rosch, LLC

Electrical Engineering Project Manager: David Simes | dsimes@simesandrosch.com 3020 Hartley Road, Suite #100 Jacksonville, FL 32257 Ph: 904.260.3031

# Property Owner

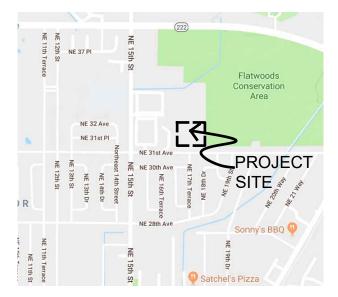
CITY OF GAINESVILLE, FLORIDA A MUNICIPAL CORPORATION, D/B/A GAINESVILLE REGIONAL UTILITIES P.O. BOX 147117, STA. A130

GAINESVILLE, FLORIDA 32614-7117 Tax Parcel Nos:

 $\stackrel{>}{\sim}$  A portion of Tax Parcel No. 08197-020-001 and Tax Parcel No. 08197-002-051

> Project Manager BETSY D. WAITE, P.E.

Site Location 1710 NORTHEAST 31ST AVENUE GAINESVILLE, FL 32627



# Jurisdictional Review CITY OF GAINESVILLE, FLORIDA

# GOVERNING STANDARDS AND SPECIFICATIONS:

"SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/DEFAULT.SHTM

GOVERNING STANDARDS AND STEELING ATTOMS.
CITY OF GAINESVILLE, 2015 ENGINEERING DESIGN AND CONSTRUCTION MANUAL (EDCM)
FLORIDA DEPARTMENT OF TRANSPORTATION, 2017-18 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS
APPENDED HEREIN, AND JANUARY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, A
AMENDED BY CONTRACT DOCUMENTS
FOR EDCM CLICK ON THE "ENGINEERING DESIGN AND CONSTRUCTION MANUAL" LINK AT THE
FOLLOWING WEB SITE:
HTTP://WWW.CITYOFGAINESVILLE.ORG/PUBLICWORKS/PROGRAMSANDSERVICES/DEVELOPMENTREVIEW
FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE:
HTTP://WWW.FDOT.GOV/ROADWAY/DESIGNSTANDARDS/STANDARDS.SHTM
FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE

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$\sqrt{2}\sqrt{1}$	L-0.2	SUMMARY OF QUANTITIES	11/8/19
$\sqrt{2}\sqrt{1}$	L-0.3	LANDSCAPE ARCHITECT GENERAL NOTES	11/8/19
$\sum_{2}$	L-0.4	LANDSCAPE ARCHITECT GENERAL NOTES	11/8/19
-	L-0.5	LANDSCAPE ARCHITECT GENERAL NOTES	6/13/19
$\sum_{1}$	L-0.6	LANDSCAPE ARCHITECT GENERAL NOTES	6/13/19
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$\sum_{2}$	C-01	SITE PLAN + GRADING	1/21/20

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$\sqrt{2}$	C-02	STORMWATER BASINS	1/21/20
$\sqrt{2}$		STORMWATER + UTILITIES	1/21/20
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$\sqrt{2}$	C-05	CROSS-SECTIONS	1/21/20
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$\sqrt{2}$	C-09	PARKING AND CROSSWALK DETAIL	1/21/20
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2	E-2.1	ELECTRICAL SITE PLAN	11/8/19
	E-2.2	PHOTOMETRIC SITE PLAN	11/8/19
	E-3.1	POWER RISER DIAGRAM	11/8/19
	E-4.1	ELECTRICAL DETAILS	11/8/19

TYPE OF DEVELOPMENT:

UNITS:

ITE CODE:

ITE CODE TYPE:

AM PEAK HOUR:

PM PEAK HOUR:

**DAILY TRIPS:** 

PROVISIONS OF TRANSPORTATION MOBILITY ELEMENT POLICY 10.1.4.

CITY PARK

CITY PARK

ACRES (3.20)

3 TRIPS = 2.50 TRIPS = 0.78 TRIPS x 3.20 ACRES

1 TRIPS = 0.06 TRIPS = 0.02 TRIPS x 3.20 ACRES

1 TRIPS = 0.35 TRIPS = 0.11 TRIPS x 3.20 ACRES

TRIP GENERATION INFORMATION THE PROPERTY IS LOCATED WITHIN ZONE A OF THE CITY OF GAINESVILLE TRANSPORTATION MOBILITY PROGRAM AREA AND WILL MEET THE APPLICABLE	UNITY PARK + FLATWOODS TRAILHE	1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 3	COVER	
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SIZE: PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

DRAWING NO.: COVER

# CITY OF GAINESVILLE GENERAL NOTES

- 1. THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A TOPOGRAPHIC SURVEY PREPARED DEGROVE SURVEYORS, INC., DATED 8/22/18. PROJECT VERTICAL DATUM IS NAVD 1988. SEE PLANS FOR BENCHMARK LOCATIONS.
- 2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER AND LANDSCAPE ARCHITECT ASSUME NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE ONE CALL" 48 HOURS PRIOR TO ANY CLEARING OR CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.
- 4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
- 6. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.
- 9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED. AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND GEOTECHNICAL ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE CITY INSPECTOR PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE CONTRACTOR MUST SUBMIT TO THE CITY INSPECTOR DENSITY LOG BOOKS AND A CERTIFICATION FROM THE TESTING LABORATORY AND GEOTECHNICAL ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- 12. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR CONSTRUCTION. INSTALL SILT FENCE PER PLANS AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. ALL SILT FENCING SHALL BE INSTALLED AND INSPECTED BY THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.
- 13. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE CITY INSPECTOR AND/OR ENGINEER. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN IN THESE AREAS.
- 14. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION.
- 15. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
- 16. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 17. THE GOVERNING STANDARDS AND SPECIFICATIONS FOR VEHICULAR USE AREAS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.
- 18. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT STANDARDS, AND CITY STANDARDS.
- 19. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.
- 20. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.
- 21. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, LANDSCAPE ARCHITECT OF RECORD, CITY PROJECT MANAGER, AND THE CITY INSPECTOR SHALL MEET PRIOR TO INITIATION OF SITE CONSTRUCTION.
- 22. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE CITY PRIOR TO BEGINNING WORK.
- 23. ANY CONSTRUCTION IN THE CITY OF GAINESVILLE PUBLIC ROW WILL REQUIRE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK. AN MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE ROW THE EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC.
- 24. OPEN CUT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH FDOT INDEX 307, AND USING THE FLOWABLE FILL OPTION.
- 25. FLEXIBLE PAVEMENTS ARE TO EVALUATED AND DESIGNED IN ACCORDANCE WITH THE FDOT FLEXIBLE PAVEMENT DESIGN MANUAL AND FDOT STANDARDS INDEX 514. ADDITIONAL PROVISIONS ARE FURTHER DESCRIBED IN THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 10.8.7.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THE DESIGN DOCUMENTS. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.
- 27. ALL WORK WITHIN THE CITY RIGHT-OF-WAY (ROW), SHALL COMPLY WITH THE FOLLOWING:
- A. THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE ROW SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE PUBLIC WORKS DEPARTMENT.
- B. NO WORK SHALL BE DONE NOR MATERIALS USED IN THE ROW, WITHOUT INSPECTION BY THE PUBLIC WORKS DEPARTMENT (334-5070), AND THE CONTRACTOR/DEVELOPER SHALL FURNISH THE DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS.
- C. THE PUBLIC WORKS DEPARTMENT RESERVES THE RIGHT TO MODIFY THE PROPOSED WORK WITHIN THE ROW TO ENSURE COMPATIBILITY WITH EXISTING IMPROVEMENTS. SUCH MODIFICATION COSTS SHALL BE BORNE BY THE CONTRACTOR.
- D. ELECTRONIC COPIES OF ALL REPORTS, CALCULATIONS, AND PLANS SHALL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT IN .PDF FORMAT FOR ALL REQUESTED REVIEWS.
- 28. ALL WORK WITHIN OR ON CITY OWNED OR MAINTAINED FACILITIES, ROW OR EASEMENT WILL REQUIRE AS-BUILT PLANS. AS-BUILT PLANS SHALL SHOW THE CONSTRUCTED CONDITIONS OF THE CITY OWNED OR MAINTAINED AREA WITH SUFFICIENT DETAIL TO BE COMPARED TO THE CONSTRUCTION PLANS FOR ACCURACY OF THE CONSTRUCTED FACILITIES, INCLUDE SITE HORIZONTAL CONTROL AND BENCHMARKS AND BE PERFORMED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. REQUIREMENTS FURTHER DESCRIBED IN THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 8.3.
- A. AS-BUILT PLANS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF CHAPTER 5J-17. 051 AND 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE AND BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AS SIGNED AND SEALED PLANS AND AN ELECTRONIC DRAWING FILE. GUIDANCE ON PREPARATION OF AS-BUILT PLANS CAN BE FOUND IN CHAPTER 5.12, FINAL AS-BUILT PLANS PROCESS OF THE FDOT CONSTRUCTION PROJECT ADMINISTRATION MANUAL. AS-BUILT PLANS FOR DRIVEWAY PERMITS MAY BE REQUIRED ON A CASE BY CASE BASIS.
- B. THE CONTRACTOR SHALL FILE AS-BUILT PLANS OR RECORD DRAWINGS WITH THE PUBLIC WORKS DEPARTMENT UPON COMPLETION OF ANY IMPROVEMENTS FOR WHICH CHANGES HAVE BEEN APPROVED DURING THE CONSTRUCTION PROCESS. THE REQUIREMENT FOR AN AS-BUILT PLAN OR RECORD DRAWING WILL BE DETERMINED ON A CASE BY CASE BASIS, DEPENDING ON THE SCOPE OF THE CHANGES.
- 29. THE CONTRACTOR'S SURVEYOR SHALL PROVIDE AND MAINTAIN STATION MARKERS TO THE SATISFACTION OF THE INSPECTION STAFF ALONG THE PROPOSED ROADWAY ALIGNMENT FOR THE PROJECT DURATION.
- 30. THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM DROP-OFF AND ABOVE GROUND HAZARDS WITHIN PROJECT LIMITS AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- 31. THE CONTRACTOR SHALL COMPLY WITH THE SIXTH EDITION OF THE FLORIDA FIRE PREVENTION CODE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-5(A) & (B)]

# PAVING, GRADING, AND DRAINAGE GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:
  - A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED IN THE PLANS. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY. NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.
  - B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE CITY.
- C. PERMANENT SOD STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS NOTED IN PLANS. EVIDENCE OF GERMINATION AND STABILIZATION MUST BE NOTED PRIOR TO FINAL ACCEPTANCE.
- D. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.
- E. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.
- F. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT
- 2. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 3. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ENGINEER OF RECORD SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
- 4. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND TESTING INFORMATION AND DENSITY LOG BOOKS MADE AVAILABLE TO THE CITY INSPECTOR DURING SITE INSPECTIONS.
- 5. GENERAL CONTRACTOR TO CONTACT CITY INSPECTOR 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.
- 6. CONTRACTOR IS TO SUBMIT FOOT APPROVED CONCRETE DESIGN MIXES FOR REVIEW AND APPROVAL TO THE CITY INSPECTOR AND ENGINEER OF RECORD BEFORE ANY CONCRETE WORK IS TO COMMENCE ON THE PROJECT.
- 7. AS DETERMINED NECESSARY AND DIRECTED BY CITY INSPECTOR AND/OR ENGINEER, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED PAVEMENT BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX NO. 500 AND 505.
- 8. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS APPROVED BY THE CITY INSPECTOR AND/OR PROJECT MANAGER.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS FOR CHANGES MADE DURING CONSTRUCTION.
- 10. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM MEETING FDOT STANDARD SPECIFICATIONS SECTION 346 FOR CLASS I PORTLAND CEMENT CONCRETE.
- 11. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF CONSTRUCTION SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.
- 12. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT
- 13. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX NO. 281.
- 14. ALL STORM SEWER, CURB, AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.
- 15. CONTRACTOR SHALL COLLECT AND REMOVE ALL NETTING UPON COMPLETION OF SOD INSTALLATION.
- 25. CONTINUE COLLEGE AND NEMOVE ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF ON COMPLETION OF SOS INSTITUES AND ALE NET TIME OF SOS INSTITUTES AND ALE

# UTILITY GENERAL NOTES

- 1. EXISTING UTILITIES ARE TO REMAIN IN PLACE AND BE PROTECTED UNLESS NOTED OTHERWISE.
- 2. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC., AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.
- 3. OVERHEAD POWER LINES ARE LOCATED WITHIN THE WORK AREA AND POSE AN ELECTROCUTION HAZARD. OVERHEAD POWER LINE HAZARD WARNING SIGNS SHALL BE POSTED BY THE CONTRACTOR AND REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION OPERATIONS. ALL GRU ELECTRIC STRUCTURES AND ALL GUY WIRES AND ANCHORS WITHIN THE WORK AREA SHALL BE FLAGGED AND PROTECTED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
- 4. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIRES THAT EQUIPMENT BE KEPT AT LEAST 10 FEET AWAY FROM POWER LINES FROM 0-50 KV. FOR 138KV LINES (LINES TO THE WEST SIDE OF THE PROPOSED ROW ARE TRANSMISSION LINES AT 138KV), OSHA MINIMUM APPROACH DISTANCE (OSHA 1926.1408 TABLE A) IS 15 FEET. CRANES AND DERRICKS ARE REQUIRED TO TAKE ADDITIONAL STEPS BEFORE BEGINNING WORK (SEE OSHA STANDARDS 29 CFR 1926.1400 EFFECTIVE NOV. 8, 2010). IF IN DOUBT AND A LINE OUTAGE IS REQUESTED DURING CONSTRUCTION, PLEASE FORWARD REQUESTS IN WRITING WITH AT LEAST 30 DAYS' NOTICE.
- 5. NOTIFY GRU ELECTRIC INSPECTIONS 48 HOURS PRIOR TO CONSTRUCTION AT (352) 393-1575. IF PROPER NOTIFICATION IS NOT MADE, CONTRACTOR IS SUBJECT TO SHUTDOWN.
- 6. LOCATE AND PROTECT GAS DURING ALL PHASES OF CONSTRUCTION. CONTACT GRU GAS UTILITY ENGINEER AT (352) 334-6078, 7 DAYS IN ADVANCE OF DEMOLITION START.
- 7. ALL NEW PUBLIC UTILITY INFRASTRUCTURE SHALL MEET APPLICABLE GAINESVILLE REGIONAL UTILITIES DESIGN, MATERIALS, AND CONSTRUCTION STANDARDS. VISIT HTTPS://WWW.GRU.COM/WORKWITHGRU/CONSTRUCTIONDEVELOPMENT/STANDARDSMANUALS.ASPX FOR THE LATEST STANDARDS INFORMATION.
- 8. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY / AGENCY OWNERS AND HAND DIG WITHIN 3' OF KNOWN UTILITIES.

9. UTILITY / AGENCY OWNERS:	COMPANIES	TELEPHONE NUMBI
	AT&T	(352) 284-8110
	COX CABLE	(352) 337-2142
	GRU WATER/WASTEWATER	(352) 393-1639
	GRU ELECTRIC	(352) 393-1562
	GRU GAS	(352) 334-6078
	GRU COMMUNICATIONS	(352) 393-6928

10. THE PROPERTIES BEING UTILIZED FOR THE UNITY PARK + FLATWOODS TRAILHEAD PROJECT, INCLUDING PORTIONS OF TAX PARCEL NOS. 08197-020-001 AND 08197-002-051, ARE OWNED BY THE CITY OF GAINESVILLE, FLORIDA,

D/B/A GAINESVILLE REGIONAL UTILITIES, A MUNICIPAL CORPORATION. THE AREA OF USE FOR THE PROJECT WILL BE GRANTED VIA A MEMORANDUM OF UNDERSTANDING AGREEMENT BETWEEN THE CITY OF GAINESVILLE, PARKS

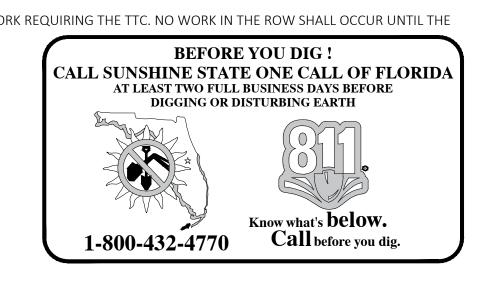
RECREATION AND CULTURAL AFFAIRS DEPARTMENT AND GAINESVILLE REGIONAL UTILITIES. FOR FURTHER INFORMATION CONTACT: GAINESVILLE REGIONAL UTILITIES, REAL ESTATE DIVISION, P.O. BOX 147117, STA. A130,

GAINESVILLE, FL 32614-7117.

11. CONTRACTOR SHALL PAY FOR AND FACILITATE THE INSTALLATION OF THE ELECTRICAL METER.  $\sqrt{2\lambda}$ 

# TEMPORARY TRAFFIC CONTROL (TTC)

- 1. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING A TRAFFIC CONTROL PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE. THE TRAFFIC CONTROL PLAN MUST BE IN ACCORDANCE WITH LATEST FDOT DESIGN STANDARDS INDEX 600 SERIES FOR TRAFFIC CONTROL THROUGH WORK ZONES. WHEN THE CONDITIONS OF THE WORK ZONE DEVIATE FROM THE STANDARD INDEX, A TTC PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT ADVANCED TTC (ALSO REFERRED TO AS MOT) CERTIFICATION TRAINING AND MUST BE REVIEWED AND APPROVED BY THE REGULATING AUTHORITY.
- 2. THE CONTRACTOR SHALL SUBMIT THE TTC PERMIT APPLICATION TO THE APPROPRIATE REGULATORY AUTHORITY FOR APPROVAL PRIOR TO BEGINNING WORK REQUIRING THE TTC. NO WORK IN THE ROW SHALL OCCUR UNTIL THE TCC PERMIT IS APPROVED.
- 3. THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM DROPOFFS AND ABOVE GROUND HAZARDS AT ALL TIMES DURING CONSTRUCTION.



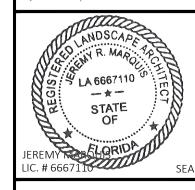
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 90% DESIGN SUBMITTAL
 11/8/19

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 90% DESIGN SUBMITTAL
 6/13/19

 60% DESIGN SUBMITTAL
 2/1/19

 SYM
 DESCRIPTION
 DATE

em has been electronically signed and sealed by Marquis, RLA on the Date and/or Time Stamp using a digital signature. I copies of this document are not considered and sealed and the signature must be verified electronic copies.



Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084

Ph 904.825.6747 www.halback.co

SUPERVISOR

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APPROVED

DRAWN BY: DF
CHECKED BY: JM
PROJECT MANAGER: JM

ATWOODS TRAILHEA
AVENUE, GAINESVILLE, FL 320

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UNITY PARK + FLAT

SIZE: ANSI D PRIME PROJECT NO.: 18.39.0

DRAWING NO.:

L-0.1

# SUMMARY OF QUANTITIES

Description	Qty.	Unit	Notes
Unity Park/NE 31st Avenue Park Demo + Site Preparation	n		
Concrete removal at existing playground	20,400	1 50 11	Removing (2) tennis courts and (2) basketball courts from existing NE 31st AVE Park
Removal of existing playground structures	1	allowance	Remove (2) swingset structures, (1) merry-go-round, (1) drinking fountain, chain-linked fencing, and (1) shed. Shed shall be reinstalled at new park.
Grading of existing playground site	6,444	sq. yd	Bring site to level grade
Site clearing + grubbing (3.04 acres)	3.0	<del>                                     </del>	3132 CY total fill; 855 CY total cut
Total Net Fill	3,059.0	cu. yd.	3131.6 cu. yd. fill 855.5 cu. yd. cut 782.9 cu. yd. 25% compaction factor TOTAL NET FILL 3059.0 cu. yd
Asphalt demoliton	400	sq. ft.	Remove existing parking lot; keep existing chain-linked fence from swing gate to NE 31st AVE.
Tree fencing (chain-linked)	175	lin. ft.	To protect two high quality heritage shade trees
Tree fencing (wood or plastic)	2,030	lin. ft.	To protect remaining regulated trees
Silt erosion control fencing	1	allowance	Est. need of 2,200 lin. ft. silt fencing.
Grading for stormwater management of new park site	3.0	acres	See civil engineer sheets for size and depth
Stormwater drainage infrastructure	1	allowance	See civil engineer sheets for structures and locations
Construction site entrance	14	cu. yd.	Gravel at entrance
Utilities, Electrical	1	allowance	Install conduit from power source to pavilion, (3) parking lot light poles/fixtures, future restroom site.
Utilities, Water	1	allowance	Install pipe extending from existing water line running into existing park site into new park site for drinking fountain, future restroom, and irrigation; include, as needed, meter(s), backflow preventer(s)
Unity Park Parking Lot	~~~~	· ~~~~~	2
Asphalt paving with 6" base + striping	1,042	sq. yd	10) parking spaces w/ (2) spaces allocated for ADA access
Parking lot light fixtures, poles, concrete footers	3	each	GRU Rental Light (2) LED Round Roadway Light (Type L51) w/ Aluminum Pole (Type P11, Black)
Curb	481	lin. ft	$\frac{1}{2}$
MOT	1	allowance	
Unity Park Hardscape			
Concrete pathways, bench pads, picnic table pads, pavilion pad	1,559	sq. yd	Includes pathways and pads for (2) grills, (1) drinking fountain, (6) bicycle racks, (8) benches, and foundation for pavilion
Concrete curbing interior to park	484	lin. ft	Includes playground and fitness stations
Basketball courts	933	sq. yd	(2) full size high school courts with striping and (1) triple toss circular court; quantity excludes concrete paving around courts
Painted surfacing for circular fun hoop court, 4-square, twister, and hopscotch	166	sq. yd	
Painted surfacing for gaga ball court	20	sq. yd	
Fencing along northern property line	427	lin. ft	Chain-linked fence to match existing fence on west side of property
Terreing drong froi therm property fine	127	11111. 1 C	Tenam miked tende to materi existing tende on west side of prope

Unity Park Playground, Fitness Stations, and Court Compo	onents				- 6	0 -	8
Playground structure for 2-5 year olds	1	each	Berliner Spaceball S (2-5) rope play		11/8/19	6/13/19	12/28/18 DATE
Playground structure for 5-12 year olds	1	.,	Berliner Cosmo.10 (5-12) rope play				<del>-</del>
Swing set, traditional	1	1	Berline Swingo.2.4 Swingset				
Swing set, accessible	1	1	Berliner Double Cloud 9 Disc Swings				
Merry Go Round-like play structure	1	each	Berliner O'Tannenbaum				
Engineered wood fiber	186	cu. yd.	Install to depth of manufacturers' specifications	]}	_ I <del>-</del> I -	IITTAL	IITTAL
Basketball courts (high school dimensions)	1	allowance	(2) full courts requires: (4 each) posts, backboards, rims, and nets, and associative hardware		SIGN	SIGN SUBMIT	SIGN SUBM
Basketball courts (circular court)	1	allowance			8   8	90% DE:	0% DE
Push up station	1	allowance					(")
Chin up station	1	allowance				7	
Bench station	1	allowance		]			
Balance beam station	1	allowance		]			
Body curl station	1	allowance		]			
Parallel bar station	1	allowance		]			
Unity Park Site Furniture + Amenities				This item has b Jeremy Marqui shown using a	peen electronicalliss, RLA on the Daidightal signature	ly signed and ite and/or Time.	d sealed by me Stamp
City-standard trash/recycling receptical	3	each	One reused receptical from previous park and two new recepticals.	Printed copies signed and sea on any electror	s of this document aled and the signa onic copies.		
Dog bag stand	1	each (	One reused receptical from previous park and two new recepticals.  Dogipot Model #1011-MINI	3	MIII	200	—
Bench	8	each			DANDSC.	APERA	É,
Bicycle rack	6	each		REGISTER	LA 6667		Sil.
Ultra Play 238 Series 8' Table	6	each	Five standard (238-V8) and one ADA accessible (238H-V8).	A SE	-★- STAT	-	CZ
Pedestal drinking fountain with ADA and pet access; lockable	1	each		$\mathcal{A}$	N OF	ina A	ddy
hose bibb		Cacii		JEREMY LIC. # 666	A GUOR		, SEA
Park Grills	2	each	One double wide and one ADA grills		,	•	
Shelter, 20'x24', gable roof	1	each		בלו	ML	4-1	Н
Unity Park Community Garden				ا ہو	IVIL	_ '	. ■
Fencing + gate	132	lin ft.	City standard wood picket fencing with (1) gate	34 C	uis Latimer + Cordova Stre	eet, Suite	te A
Water access point: lockable hose bibb	1	allowance		St.	Augustine,	FL 32084	34
Rehabilitation of existing shed	1	allowance		Ph 904.82	25.6747 w	/ww.halb	pack.co
Unity Landscape				SUPERVIS	OR		
Betula nigra / River Birch	2	30 gal.	Multi-trunk, 14' height	1			
Cornus florida / Eastern Dogwood	5		Multi-trunk, 8' height	APPROVE	D		
Lagerstroemia indica x faurei `Natchez` / Natchez Crape Myrtle	26		8' height				
Nyssa sylvatica / Sour Gum	6	i e	2" cal., 10' height				
Pinus palustris / Longleaf Pine			2" cal., 8' height	DRAWN B	3Y:		DF
Quercus virginiana / Southern Live Oak		as needed		CHECKED PROJECT I	BY: MANAGER:		JM JM
Taxodium distichum / Bald Cypress	34	1	2.5" cal., 8' to 10' height			T	
Magnolia grandiflora `Brackens Brown Beauty`	3	B&B	2" cal.		627		
Myrica cerifera / Wax Myrtle	3	7 gal.		EA	32(		
Dietes iridioides / Fortnight Lily	68	1387	planted 24" on center				
Liriope muscari / Lily Turf	149		planted 16" on center		E,		
Zamia pumila / Coontie	54	3 gal.	planted 16" on center	RA	SVILL		
Paspalum notatum / Bahia Grass	6,473	sq. yd			S		ES
Paspalum notatum 'Argentine' / Bahia Grass w/ Wild Flower See	2,023	sq. yd		S	N N	Ī	=
Temporary irrigation		allowance			GAII	-	Z
Mulch	190	cu. yd.	Includes community garden and throughout park; 3" depth			<u>-</u>	ΑN
Unity Park Signage	1	allouisis	Includes rules of use		NUE,		
Community Garden Sign Custom Bark Sign along NE 21st AVE	100		Includes rules of use		/EN	(	OF
Custom Park Sign along NE 31st AVE		allowance			AVE		R Y
ADA Parking Signs Twistor Spinner Sign		allowance			ST	<	$\triangleleft$
Twister Spinner Sign Kiosk, informational		allowance			31	2	Š M O
Flatwoods Trailhead	1	each		$\langle \rangle$	ST	=	$\leq$
			Replace existing 17 bollards with CCA treated 6x6 wood bollards, set	AR	HEA		S
Remove and replace existing wood bollards	1	lallowance	in concrete; provide secured plastic caps for UV protection		RT		
Gravel for entry way and parking lot	62	<del>                                     </del>	9" depth, compacted #57 stone aggregate		N N		
	121	· · · · · · · · · · · · · · · · · · ·	To contain (1) kiosk and (2) bicycle racks		0		
Concrete pad				$\sqcap =$	$\vdash$	1	
Kiosk, informational	1	each				<u>I</u>	
•	1	each each			17		

QUANTITIES ARE NOTED FOR BIDDING ASSISTANCE. THEY ARE AUTOMATICALLY GENERATED BY LAND F/X SOFTWARE, CONVERTED TO FDOT STANDARDIZED QUANTITIES FOR THIS SUMMARY, BUT MEASUREMENTS ON THE PRINTED PLAN SHALL PREVAIL IF CONFLICT.

DRAWING NO.:

# GENERAL NOTES FOR FURNISHING

THE FOLLOWING SITE FURNISHING ARE ADDRESSED IN THESE NOTES

(2. ČŎMBIŇĖĎ ŤŘÁŠH ÁŇĎ ŘEČYČLIŇĞ ŘEČĚPŤÁČLĚŠ (QŮÁŇŤIŤY ŎF 4; ŎŇE (1) ŤŎ BE ŘEĽŎCÁŤEĎ).

- a. THE CITY OF GAINESVILLE APPROVED PRODUCT IS MANUFACTURED BY ARETE INDUSTRIES, ODESSA, FL. MANUFACTURER'S MODEL NUMBER IS CUST-WE3C-47-D, DOUBLE-SIDED, COMBINED WASTE AND RECYCLING STATIONS.
- b. THE UNITS CONSTRUCTED OF RECYCLED HDPE MATERIAL WITH VIRGIN HDPE MATERIAL FOR THE ROOF. ALL FASTENING HARDWARE IS STAINLESS STEEL. ALL DOORS HAVE FULL LENGTH STAINLESS HINGES AND PAINTED METAL SUPPORTS. DOORS WILL HAVE ALL METAL MAGNETIC CATCHES. FLAP DOORS USE A FIXED INTEGRATED HINGE WITH STAINLESS
- CONCEALED/CAGED PINS TO ALLOW FULL 180 DEG MOVEMENT. ANCHOR PLATES ARE ALUMINUM C. THE FINISH SHALL BE GREEN PANELS WITH BLACK FRAME. THE ROOF SHALL BE BLACK, ALL BOUTED/INFILLED TEXT AND LOGOS WILL BE WHITE UNLESS OTHERWISE NOTED.
- d. Contractor shall secure all containers to concrete pads with 3/8"x5" wedge type anchor bolts.  $\frac{1}{2}$ 3. BICYCLE RACKS (QUANTITY OF 8).
  - a. THE CITY OF GAINESVILLE APPROVED PRODUCT IS MANUFACTURED BY LANDSCAPE FORMS, INC., KALAMAZOO, MI. MANUFACTURER'S MODEL NAME IS RING® BICYCLE RACK.
- b. THE PRODUCT IS MADE OF STEEL AND FINISHED WITH A FACTORY-APPLIED POWDER COATING WITH BLACK PAINT USING A RUST-INHIBITING PRIMER AND POWDER TOPCOAT THAT IS UV, CHIP, AND FLAKE RESISTANT.
- 4. BENCHES (QUANTITY OF 8).
  - a. THE CITY OF GAINESVILLE APPROVED PRODUCT IS MANUFACTURED BY ULTRA PLAY, RED BUD, IL. MODEL NUMBER IS 940-SERIES DIAMOND EXPANDED METAL 6-FOOT BENCH, UTP-940SM-V6.
  - b. SEAT HEIGHT IS 18", LENGTH IS 6'-0", DEPTH IS 23", AND OVERALL HEIGHT IS 24". THE FRAME MATERIAL IS 12-GAUGE STEEL. THE BENCH BACK REST WILL HAVE "UNITY PARK" LETTERING. PROVED A MESSAGE PROOF TO LANDSCAPE ARCHITECT BEFORE ORDERING PRODUCT
  - c. THE SEAT IS MADE OF DIAMOND EXPANDED 12-GAUGE STEEL. MOUNTING HARDWARE IS STAINLESS STEEL.
  - d. FRAME FINISH SHALL BE FACTORY-APPLIED POWDER COATING WITH MATTE BLACK PAINT.
- e. FOUR (4) SEATS SHALL HAVE A GREEN THERMOPLASTIC COATING FINISH AND FOUR (4) SEATS SHALL HAVE A BLUE THERMOPLASTIC COATING FINISH. THE HARDWARE SHALL BE "SŢĄĮŊLĘSS STĘĘL. SURFĄCĘ MOUNT BENCHES TO CONCRETE. FIĘLD VĘRIFY LOCATION OF BENCHES WITH DIRĘCTOR, WILD SPĄCES PUBLIC PLĄCES, OR LANDSCAPE ARCHITĘCT. 5. PICNIC TABLES (QUANTITY OF 6; ONE (1) TABLE SHALL BE ADA ACCESSIBLE ON BOTH ENDS).
  - a. THE CITY OF GAINESVILLE APPROVED PRODUCT IS MANUFACTURED BY ULTRA PLAY, RED BUD, IL. MANUFACTURER'S MODEL NUMBER IS 238-SERIES EXTRA HEAVY DUTY RECTANGULAR 8-FOOT PICNIC TABLE, DOUBLE-SIDED ADA ACCESSIBLE, 238H-8.
  - b. OVERALL DIMENSION LENGTH IS 8'-0", WIDTH IS 69", AND HEIGHT IS 30". TABLETOP DIMENSIONS ARE 8'-0" LENGTH, 30" WIDTH, AND 30" HEIGHT. BENCH DIMENSIONS ARE 6'-0" LENGTH, 12" WIDTH, AND 18" HEIGHT.
  - c. Frame material is made of 2-3/8" o.d. Galvanized 12-gauge iron pipe. Seat and tabletop are diamond expanded 9-gauge steel. Mounting hardware and fasteners ARE STAINLESS STEEL.
  - d. FINISHES FOR IRON PIPE IS BLACK OVEN BAKED POWDER COATING.
  - e. THE FINISHES FOR THREE (3) STEEL TABLE SEATS SHALL HAVE A BLUE THERMOPLASTIC COATING.
  - f. THE FINISHES FOR TWO (2) STEEL TABLE SEATS SHALL HAVE A GREEN THERMOPLASTIC COATING. INSTALL THESE TABLES AT THE PAVILION. g. THE FINISHES FOR ONE (1) STEEL ADA TABLE SEAT SHALL HAVE A GREEN THERMOPLASTIC COATING. INSTALL THE TABLE AT THE PAVILION.
- 6. DRINKTNG FOUNTAIN (QUANTITY OF 1).
  - a. THE CITY OF GAINESVILLE APPROVED PRODUCT IS MANUFACTURED BY MOST DEPENDABLE FOUNTAINS, INC., ARLINGTON, TN. MANUFACTURER'S MODEL NUMBER IS 840 SMSS-1 W/ OPTION PET FOUNTAIN, SAND TROUGH STYLE, PEDESTAL DRINKING FOUNTAIN, SURFACE MOUNTING AND MEETING ADA REQUIREMENTS.
  - b. THE PEDESTAL MATERIAL IS STAINLESS STEEL, ONE-PIECE WELD CONSTRUCTION, WITH AN OVEN BAKED POWDER COATING. THE BUBBLER HEAD IS STAINLESS STEEL ANTI-SQUIRT HEAD MOUNTED WITH A LOCK NUT AND WASHER TO HOLD BUBBLER IN LOCKED POSITION. THE PUSH BAR IS STAINLESS STEEL WITH A CIRCUMFERENCE EXCEEDING 8- 7 1/4". PUSH BAR SHALL PREVENT SAND AND OTHER OBJECTS FROM STICKING PUSH BAR IN THE ON POSITION. THE BUBBLER HOUSING IS STAINLESS STEEL
  - c. THE CONTROL VALVE: SHALL BE ADJUSTABLE AND REQUIRE LESS THAN 5-LBS. TO OPERATE. THE VALVE SHALL OPERATE AND FUNCTION AT 30 TO 80 PSI.
  - d. WATER SUPPLY COMES THROUGH REINFORCED NYLOBRAID TUBING WITH NSF-61 CERTIFICATION (NOT PLASTIC TUBING) SUPPLIED BY 1/2" MIP THREADED INLET WITH STAINLESS STEEL STRAINER. UNION FITTINGS SHALL BE AT EVERY CONNECTION
  - e. UNIT SHALL HAVE SUPPLY CONNECTIONS THROUGH ABOVE GRADE ACCESS DOOR, AND ALL ACCESS PLATES, BRACKETS, VANDAL RESISTANT BOLTS AND SCREWS SHALL BE STAINLESS
  - f. THE FINISH FOR STAINLESS STEEL COMPONENTS IS OVEN BAKED POWDER COATING.
  - g. DRINKING FOUNTAIN SHALL INCLUDE THE RECESSED HOSE BIBB ATTACHMENT WITH LOCKABLE ACCESS DOOR OPTIONS
- 7. DOG WASTE STATIONS (QUANTITY OF 1).
  - (a. BÁSÍS OF DESIGN: DOGÍPOT.COM, ORĽANDO, FL, MODEL NÚMBÉR IS #1005-2 POLY DOGÍPOT DOGVALET
  - b. SIZE H:31" x W:19" x D:14", WEIGHT ~30lbs, MATERIAL .192mm FOREST GREEN ROTATIONAL MOLDED POLYETHYLENE. 12-GAUGE 2" x 2" x 4' SQUARE GALVANIZED STEEL MOUNTING
- c. 400-BAG CAPACITY, TWO DIAMOND BAG DISPENSER SLOTS, FRONT LOCKING LID, AND CLEARLY POSTED INSTRUCTIONS. INSTALLATION INSTRUCTIONS AND MOUNTING HARDWARE PROVIDED BY MANUFACTURER.
- 8. COOKING GRILLS (QUANTITY OF 1 ADA ACCESSIBLE GRILL AND 1 DOUBLE GRILL).
- á. BÁSIS OF DEŠIĞN FOR DOUBLE GRÍLL: RJ THOMÁS MFG. CO., INC., P.O. BOX 946, CHEROKÉE, IA 51012-0946. PRODUCT DEŠCRIBED MODEL ASW-20 B18 S6 ACCESSIBLE PARK GRILI d. FIREBOX IS CONSTRUCTED OF 3/16" PLATE STEEL. TWO INTEGRAL ASH RETAINER DIE-FORMED ACROSS FRONT OF BOX AND ALLOWANCE FOR DRAINAGE. ALL EXPOSED CORNERS ARE ROUNDED TO 1-1/2" RADIUS. COOKING GRATE SHALL BE LESS THAN 34" ABOVE GRADE
- e. OPTION B18 INCLUDES A BOLT-DOWN BASE PLAST POST FOR HARD SURFACE MOUNTING APPLICATIONS. CONTRACTOR TO PROVIDE MANUFACTURER RECOMMENDED ANCHOR BOLDS
- F. GRATE IS MOUNTED ON A  $2-\frac{3}{8}$  O.D. TUBE ALLOWING FOR ROTATION (OPTION S6).
- g. FINISH: ENTIRE UNIT IS FINISHED IN HIGH TEMPERATURE, HEAT RESISTANT, NONTOXIC BLACK ENAMEL.
- h. OPTIONS: BOLD-DOWN BASE (B18) PLATE BASE, SWIVEL SHELF (S6).
- . INSTALLATION PER MANUFACTURER INSTRUCTIONS
- . BASIS OF DESIGN FOR DOUBLE GRILL: RJ THOMAS MFG. CO., INC., P.O. BOX 946, CHEROKEE, IA 51012-0946. PRODUCT DESCRIBED MODEL L-1500/S B8 SHELTERHOUSE GRILL.
- k. FIREBOX IS CONSTRUCTED OF 3/16" PLATE STEEL REINFORCED BY FOUR 3/16" GUSSETS ON UNDERSIDE AND BY 3/16" X 1-1/14" X 1-1/14" ANGLE CROSS ENDS. TWO INTEGRAL ASH
- FLANGES ARE FORMED AT OPEN ENDS OF FIREBOX TO RETAIN ASHES AND PROVIDE REINFORCEMENT. ALL EXPOSED CORNERS ARE ROUNDED TO 1-1/2" RADIUS.
- . GRILL IS PROVIDED WITH 1 BOLT-ON, 3/16" X 12" X 36" STEEL PLATE, SIDE UTILITY SHELF.
- m. GRILL BASE IS 6" O.D. STEEL PIPE WELDED TO 3/8" X 10" X 10" STEEL BASE PLATE PROVIDING FOUR CORNER HOLES FOR CONCRETE INSTALLATION WITH FOUR ½" X 6" ANCHOR BOLTS PROVIDED.
- n. FINISH: ENTIRE UNIT IS FINISHED IN HIGH TEMPERATURE, HEAT RESISTANT, NONTOXIC BLACK ENAMEL.
- DESIGN REFERENCES. AS APPLICABLE TO OUTDOOR FURNISHINGS, MANUFACTURERS' DESIGNS SHALL COMPLY WITH THE FOLLOWING STANDARDS IN THE FOLLOW REFERENCES:
- 1. ASTM B 117 STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS. 2. ASTM D 522 - STANDARD TEST METHODS FOR MANDREL BEND TEST OF ATTACHED ORGANIC COATINGS.
- 3. ASTM D 523 STANDARD TEST METHOD FOR SPECULAR GLOSS.
- 4. ASTM D 2247 STANDARD PRACTICE FOR TESTING WATER RESISTANCE OF COATINGS IN 100% RELATIVE HUMIDITY.
- 5. ASTM D 3359 STANDARD TEST METHODS FOR MEASURING ADHESION BY TAPE TEST. 6. ASTM D 3363 - STANDARD TEST METHOD FOR FILM HARDNESS BY PENCIL TEST.
- 7. ASTM G 155 STANDARD PRACTICE FOR OPERATING XENON ARC LIGHT APPARATUS FOR EXPOSURE OF NON-METALLIC MATERIALS.
- 8. ISO TESTING STANDARDS:
  - a. ISO 1520 PAINTS AND VARNISHES CUPPING TEST.
- b. ISO 2815 PAINTS AND VARNISHES BUCHHOLZ INDENTATION TEST 9. SECTION 9, CALIFORNIA PROPOSITION 6 AND THE FEDERAL SAFE DRINKING WATER ACT.
- 10.MAINTENANCE-FREE REINFORCED NYLOBRAID TUBING AND FITTINGS, NSF-61 CERTIFIED.

#### SUBMITTALS

- 1. FOR CITY OF GAINESVILLE CONSIDERATION OF ALTERNATE MANUFACTURERS, SUBMIT MANUFACTURERS' SHOP DRAWINGS INDICATING THE MODEL NUMBER, TYPE OF MATERIAL, AVAILABLE
- MATERIAL FINISHES FOR FINAL COLOR SELECTION, ATTACHMENTS, DURABILITY TESTING STANDARDS FOR MATERIALS, AND DETAILS OF CONSTRUCTION.
- 2. PROVIDE THE MANUFACTURERS' WRITTEN WARRANTY FOR ALL BUILT PRODUCTS PROTECTING AGAINST DEFECTS IN MATERIAL OR FACTORY WORKMANSHIP FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

# GENERAL NOTES FOR SIGNS

#### 1. DESIGN REFERENCES:

- a. AMERICANS WITH DISABILITIES ACT-ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES, UNITED STATES ACCESS BOARD, AS AMENDED THROUGH MAY 2014.
- b. CITY OF GAINESVILLE, FL, PARKS, RECREATION AND CULTURAL AFFAIRS DEPARTMENT SIGN POLICY FOR GAINESVILLE PARKS, REVIEWED MARCH 2018.
- c. AMERICANS WITH DISABILITIES ACT (PUBLIC LAW 101-336)
- d. FLORIDA STATUTE 553 PART II ACCESSIBILITY BY HANDICAPPED PERSONS
- 2. THE FOLLOWING SIGNS ARE ADDRESSED IN THESE NOTES, WITH THE PRODUCTS OF THE FOLLOWING MANUFACTURERS ACCEPTABLE, PROVIDING THEIR PRODUCTS ARE EQUAL OR EXCEED THE QUALITY SPECIFIED. MINOR DIFFERENCES IN CONSTRUCTION AND PRODUCTS ARE RECOGNIZED TO EXIST AND MAY BE ACCEPTABLE. THE FOLLOWING SPECIFICATIONS ARE ADDRESSED IN THESE NOTES.

#### 3. PARK KIOSK.

- a. A STRUCTURE PROVIDING COVER FOR POSTED INFORMATION LOCATED AT THE PARK ENTRANCE ALONG NORTHEAST 31st AVE.
- b. BASIS OF DESIGN IS THE PRIDE ENTERPRISES, BRANDON, FL, DOUBLE-SIDED KIOSK, MODEL NUMBER #14KIOSKDOUBLE 00432117
- c. KIOSK FRAME MATERIAL SHALL BE SOUTHERN YELLOW PINE WITH A GABLED METAL ROOF. DIMENSIONS ARE 6-FEET WIDE, 16-FEET TALL, AND 7-FEET LONG, WITH AN INFORMATION BOARD 5-FEET WIDE BY 3-FEET TALL
- 4. ADA PARKING SPACE SIGN MOUNTED ON POST (QUANTITY OF 2).
  - a. LOCATED AT THE HEAD OF THE NORTHERNMOST PARKING SPACE (ADA PARKING SPACE) BUILT ON PARK PROPERTY ALONG NORTHEAST 31st AVENUE.
  - b. BASIS OF DESIGN IS 12"x18" ADA SIGN MADE OF 3M HI INTENSITY REFLECTIVE ALUMINUM 63 MIL THICK: WHITE SIGN, WHITE WHEEL-CHAIR SYMBOL ON BLUE BACKGROUND, WITH "PARKING BY DISABLED PERMIT ONLY / TOW-AWAY ZONE / AND FIND UP TO \$250.00" IN BLACK LETTERS ON WHITE BACKGROUND. BASIS OF DESIGN FROM WWW.SAFETYSIGN.COM.
- ITEM NUMBER T5316. MOUNT SIGN ON GREEN POWDER COATED ALUMINUM U-CHANNEL POST. BOTTOM HEIGHT OF SIGNS 60" ABOVE GRADE. 5. PARK ENTRY SIGN
  - a. TO BE LOCATED NEAR THE VEHICULAR ENTRANCE TO PARK ALONG NORTHEAST 31st AVE.

b. DOG WASTE STATION SIGN. ADDRESSED WITH PARK FURNISHING SPECIFICATIONS

- b. SEE DETAILS #7 & 8 ON SHEET L-2.8 "HARDSCAPE DETAILS EXERCISE EQUIPMENT" FOR BASIS OF DESIGN FOR ENTRY SIGN.
- 6. THE FOLLOWING SPECIFICATIONS ARE ADDRESSED IN OTHER NOTES.
  - a. BASIS OF DESIGN FOR PLAYGROUND AND ADULT FITNESS EQUIPMENT AREA SIGNS ADDRESSED WITHIN SHEET L-0.4. "LANDSCAPE ARCHITECT GENERAL NOTES" SECTION GENERAL NOTES FOR BASKETBALL COURTS, PLAZA AREAS, PLAYGROUND AND ADULT FITNESS EQUIPMENT.

- 1. PROVIDE THE MANUFACTURERS' WRITTEN WARRANTY FOR ALL BUILT PRODUCTS PROTECTING AGAINST DEFECTS IN MATERIAL OR FACTORY WORKMANSHIP FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 2. PROVIDE THE MANUFACTURERS' WRITTEN WARRANTY FOR ALL GRAPHICS PROTECTING AGAINST FADING, MATERIAL, OR FACTORY WORKMANSHIP FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 3. PROVIDE SHOP DRAWINGS OF ALL SIGNS FOR CITY OF GAINESVILLE AND DESIGN CONSULTANT REVIEW.

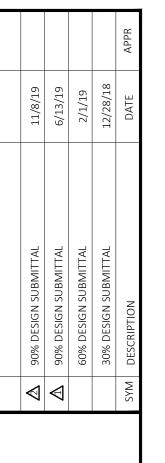
## GENERAL NOTES FOR WOODEN BOLLARDS

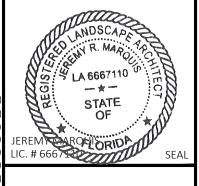
#### 1. FLATWOODS TRAILHEAD PARKING BOLLARDS

- a. 2.5 CCA-TREATED WOOD BOLLARDS SHALL BE MIN. 6x6 SQUARE OR MIN. 6" DIAMETER POSTS.
- b. 6" WIDE 3MTM PRESSURE SENSITIVE, HIGH-INTENSITY GRADE RED REFLECTIVE SHEETING TO BE PLACED ON ALL BOLLARDS, OVERLAP ENDS OF SHEETING BY 1/4" MIN.
- c. CONTRACTOR SHALL SUBMIT CHOICE OF WOOD SPECIES IF MULTIPLE SPECIES ARE AVAILABLE.
- d. FINISH SHALL BE A NATURAL PRE-STAINING.
- e. POST CAPS SHALL BE SECURE AND COVER ENTIRE TOP OF WOOD BOLLARD WITH A MIN. OF 2" OVERLAP.
- f. BOLLARD SHALL BE ENCASED IN A CONCRETE FOOTER AND HEIGHT ABOVE GRADE SHALL BE 42" TYPICAL. CONCRETE FOOTER SHALL EXTEND APPROXIMATE 1" ABOVE GRADE AND SHAPE CONCRETE DIRECT WATER AWAY FROM BOLLARD WITH A 1% SLOPE.

#### SUBMITTALS

- . PROVIDE THE MANUFACTURERS' WRITTEN WARRANTY FOR ALL BUILT PRODUCTS PROTECTING AGAINST DEFECTS IN MATERIAL OR FACTORY WORKMANSHIP FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 3. PROVIDE SHOP DRAWINGS OF ALL SIGNS FOR CITY OF GAINESVILLE AND DESIGN CONSULTANT REVIEW







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PROJECT MANAGER: JM

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SIZE: PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

DRAWING NO .: L-0.3

#### GENERAL NOTES FOR BASKETBALL COURTS, PLAZA AREAS, PLAYGROUND AND ADULT FITNESS EQUIPMENT:

THE FOLLOWING SITE AREAS AND EQUIPMENT ARE ADDRESSED IN THESE NOTES.

1. BASKETBALL COURTS -

2. PLAZA AREAS -

- A. FOR SPECIFICATIONS AND ADDITIONAL INFORMATION PLEASE REFERENCE DRAWING SHEET # L-2.5 'HARDSCAPE DETAILS BASKETBALL COURT'
- A. FOR SPECIFICATIONS AND ADDITIONAL INFORMATION PLEASE REFERENCE DRAWING SHEET # L-2.4 'HARDSCAPE DETAILS PLAZAS'
- 3. PLAYGROUND EQUIPMENT -

A. THE DRAWINGS SPECIFY 5 LOCATIONS FOR CHILDRENS PLAYGROUND EQUIPMENT WITHIN A DESIGNATED PLAYGROUND AREA.

B. PER THE BASIS OF DESIGN THE EQUIPMENT UNITS ARE BERLINER SILFABRIK PLAYGROUND EQUIPMENT.

- C. PLAYGROUND SIGN TO BE LOCATED AT ENTRY INTO PLAYGROUND. BASIS OF DESIGN FOR SIGN IS BERLINER FOUNDATION PLAYGROUND SIGN OPTION #1. SIGNAGE TEXT TO MEET THE CITY OF GAINESVILLE STANDARD REQUIREMENTS FOR PLAYGROUND SIGNAGE
- D. PLEASE REFERENCE SHEET # L-2.6 'HARDSCAPE DETAILS PLAYGROUND EQUIPMENT' FOR ADDITIONAL INFORMATION

E. BELOW ARE LISTED THE SELECTED 5 PIECES OF EQUIPMENTS

DOUBLE CLOUD 9 (ITEM # 1311.02 - HODGE PODGE PRODUCT FAMILY) FOR CHILDREN 3 YEARS OLD AND OLDER: (a) STEEL POSTS JAN: STEEL PIPES 5 1/4" WITH ROUNDED CAST ALUMINUM POST TOP, MINIMUM WALL THICKNESS 1/4"; ANTICORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND ZINC-/ EPOXY-/ POLYESTER-PROCESS

(b) NODES: FRAMEWORX-ALUMINUM BALL CONNECTORS; 9-13/16"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS; INCORPORATING AN ASTEM TT NET TENSIONING SYSTEM; SECURELY CLOSED WITH DURABLE EPDM- CAPS (c) SEAT: GALVANIZED STEEL RING COVERED WITH SHOCK-ABSORBING MATERIAL AND WRAPPED WITH FIBER ROPE (COLOR BLACK); COIL; TIGHTKNIT NET MADE OF USACORD ROPE (COLOR BLACK) IS HUNG INTO THE RING

(d) ROPES: U-ROPE-ROUND STRAND ROPES WITH STEEL CORES, 5/8" - UNLESS OTHERWISE NOTED; WITH GALVANIZED WIRES, EXTERNAL STRANDS COVERED WITH NON-ABRASIVE UV-RESISTANT POLYESTER-YARN (COLOR BLACK).

- ii. COSMO.10 MODIFIED (ITEM # 90.112.100 COSMO PRODUCT FAMILY) FOR CHILDREN 5 YEARS OLD AND OLDER:
- (a) MODIFICATION REQUIRES REPLACEMENT OF CURVED BANISTER WITH BERLINER-SUPPLIED SLIDE. SEE CONTACT INFORMATION IN DETAIL 6/L-2.6.

(b) TUBE FRAMEWORK: CURVED STAINLESS STEEL TUBES; 2 3/8"

(c) NODES: FRAMEWORX-ALUMINUM BALL CONNECTORS; 9-13/16"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS; INCORPORATING AN ASTEM TT NET TENSIONING SYSTEM; SECURELY CLOSED WITH DURABLE EPDM- CAPS

(d) ROPES: U-ROPE®-ROUND STRAND ROPES WITH GALVANIZED AND COVERED WIRES; EXTERNAL STRANDS WITH NON-ABRASIVE UV-RESISTANT POLYESTER-YARN (COLOR BLUE)

(e) SPACIAL NETTING: ROPE CROSSING POINTS ARE LOCALIZED WITH DURABLE, FORGED ALUMINUM-ALLOY CLOVERLEAF RINGS AND FORGED ALUMINUM-ALLOY BALLKNOTS (NO PLASTIC CONNECTIONS); IN SITU-REPLACEABLE ROPE STRANDS (COLOR BLUE) (NO SPECIAL TOOLS REQUIRED)

(f) DUCK JIBE: CURVED FRAMEWORX STAINLESS STEEL PIPES 2 3/8" DIAMETER, WALL THICKNESS 2.9 MM; LUBRICATED, ANTIFRICTION RECIPROCAL BEARINGS; CONNECTED TO THE MAIN COSMO FRAMEWORK WITH A THICK-WALLED FRAMEWORX-ALUMINUM BALL CONNECTOR, 9-13/16" DIAMETER, STANDING PLATFORM IS COMPRISED OF GRAINED HDPE, 19 MM THICK; THE TURNING BEARING CONSTRUCTION LOCATED IN THE GROUND CONSISTS OF FRAMEWORX STAINLESS STEEL PIPE RETAINERS, 1-3/5" DIAMETER, WALL THICKNESS 3/16')

(g) TUBE FRAMEWORK: FRAMEWORX-STEEL TUBES, 2 3/8"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 9006 WHITE ALUMINUM): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS

(h) SLIDE: HDPE 3/4" THICK (19-MM). EXTERIOR SLIDE COLOR BLUE; EXTERIOR PANEL COLOR GRAY; INTERIOR SLIDE COLOR GREEN.

- iii. SPACEBALL S (ITEM # 90.100.031 UNIVERS PRODUCT FAMILY) FOR CHILDREN 3 YEARS OLD AND OLDER:
- (a) TUBE FRAMEWORK: FRAMEWORX-STEEL TUBES, 2 3/8"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 9006 WHITE ALUMINUM): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS

(b) NODES: FRAMEWORX-ALUMINUM BALL CONNECTORS; 9-13/16"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTERPROCESS; INCORPORATING AN ASTEM TT NET TENSIONING SYSTEM; SECURELY CLOSED WITH DURABLE EPDM- CAPS

(c) ROPES: U-ROPE®-ROUND STRAND ROPES WITH GALVANIZED AND COVERED WIRES: EXTERNAL STRANDS WITH NON-ABRASIVE UV-RESISTANT POLYESTER-YARN (COLOR BLUE) (NO POLYPROPYLENE); ROPE-DIAMETER 5/8".

(d) SPACIAL NETTING: ROPE CROSSING POINTS ARE LOCALIZED WITH DURABLE, FORGED ALUMINUM-ALLOY CLOVERLEAF RINGS AND FORGED ALUMINUM-ALLOY BALLKNOTS (NO PLASTIC CONNECTIONS); IN SITU-REPLACEABLE ROPE STRANDS (COLOR BLUE) (NO SPECIAL TOOLS REQUIRED)

- iv. SWINGO.2.4 (ITEM # 90.260.504 PLAYPOINTS PRODUCT FAMILY) FOR CHILDREN 3 YEARS OLD AND OLDER:
- (a) FRAMEWORK: STAINLESS STEEL TUBE BENDS 2 3/8", CONNECTED TO FRAMEWORX®-ALUMINUM BALL CONNECTORS; 9-13/16"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS; SECURELY CLOSED WITH DURABLE EPDM-CAPS

(b) SWING SEAT: THE BLACK RUBBER SAFETY SWING SEAT IS BY STAINLESS STEEL CHAINS ROTATABLE MOUNTED TO THE CROSS TUBE MOUNTED IN MAINTENANCE FREE NYLON **BUSHES** 

- v. O' TANNENBAUM (ITEM # 95.200.080 HODGE PODGE PRODUCT FAMILY) FOR CHILDREN 3 YEARS OLD AND OLDER:
  - (a) CENTRAL MAST: STEEL POST 5 1/4", WALL THICKNESS 1/4", ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS;

(b) OUTER RINGS: BENDED FRAMEWORX-STEEL PIPES, 1-7/8" DIAMETER; ANTI-CORROSION TREATMENT AND FINISH COLOR (RAL 9006 WHITE ALUMINUM):

SANDBLASTING AND SOLVENT-FREE ZINC-/EPOXY-/ POLYESTER-PROCESS.

(c) MAST NODE: FRAMEWORX-ALUMINUM BALL CONNECTOR; 9-13/16"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 6018 YELLOW GREEN): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS; WITH INLYING NET TENSIONING SYSTEM, SECURED WITH A DURABLE EPDM-CAP.

(d) RUBBER MEMBRANE: COMPRISED OF DURABLE, VANDAL-RESISTANT CONVEYOR BELT MATERIAL

(e) ROPES: U-ROPE®-ROUND STRAND ROPES WITH GALVANIZED AND COVERED WIRES: EXTERNAL STRANDS WITH NON-ABRASIVE UV-RESISTANT POLYESTER-YARN (NO POLYPROPYLENE); ROPE-DIAMETER 5/8" (COLOR BLUE)

(f) OUTER RINGS: BENDED FRAMEWORX-STEEL PIPES, 17/8"; ANTI-CORROSION TREATMENT AND COLOR FINISH (RAL 5012 LIGHT BLUE): SANDBLASTING AND SOLVENT-FREE ZINC-/ EPOXY-/ POLYESTER-PROCESS.

(g) NETTING AND SUSPENSION ROPES: ROPE CROSSING POINTS LOCALIZED BY DURABLE, DROP FORGED ALUMINIUM-BALLKNOTS (NO PLASTIC). (COLOR YELLOW)

- A. THE DRAWINGS SPECIFY 6 LOCATIONS FOR ADULT FITNESS EQUIPMENT. THE BASIS OF DESIGN FOR THE ADULT FITNESS EQUIPMENT IS ACTION FIT BRAND BY ULTRA SITE™ A PLAYCORE COMPANY FOR USERS 13+ YEARS OLD TO ADULT.
- B. SURFACING TO COMPLY WITH ASTM F1292 AND F3101-15.
- C. ALL ACTIONFIT PRODUCTS INCLUDE INSTRUCTIONAL SIGNAGE WHICH INCLUDES STEP BY STEP INSTRUCTIONS, A MUSCLE DIAGRAM INDICATING THE MUSCLES THAT ARE BEING WORKED, QR CODES TO ACCESS VIDEO TUTORIALS, AND USER SAFETY INFORMATION (ASTM F1749)
- $\langle \psi$ . CŎŇŢŘĄŤŎŖ ŠHĄLL ĬŊŠŢĂĻL ĘŎŬIPMĚNŤ, ŬSĬŊĞ MĂŊŨFĄČŢŨŖĚŖ SPĘČIFICĂŢĬŌNS FŎŖ Ą J-BOLŢ FOOŤING ĄŇD FOLLOW ĄPPLICĄBLE INSTĄLLAŢION INSTRUĆŢĬŌNS.)  $\langle v \rangle$
- E. PLEASE REFERENCE SHEET # L-2.8 'HARDSCAPE DETAILS EXERCISE EQUIPMENT' FOR ADDITIONAL INFORMATION.
- F. SEE BELOW LIST FOR SPECIFICATIONS FOR EACH PIECE OF EQUIPMENT:
  - a. THE BASIS OF DESIGN UP184 PUSH-UP FIT TECH ASSEMBLY SHALL BE CONSTRUCTED OF 1.315" O.D. (12 GA) GALVANIZED PIPE, 1.029 O.D. GALVANIZED PIPE AND 3/16" STAINLESS STEEL TABS. THE CROSSBAR SHALL BE AN ALL WELDED CONSTRUCTION AND COATED WITH A CUSTOM FORMULA OF TGIC POLYESTER POWDER COATING (COLOR METALLIC) AFTER FABRICATION.
- ii. THE BASIS OF DESIGN UP185 CHIN-UP FIT TECH ASSEMBLY SHALL BE CONSTRUCTED OF 1.315" O.D. (12 GA) GALVANIZED PIPE, 1.029 O.D. GALVANIZED PIPE AND 3/16" STAINLESS STEEL TABS. THE CROSSBAR SHALL BE AN ALL WELDED CONSTRUCTION AND COATED WITH A CUSTOM FORMULA OF TGIC POLYESTER POWDER COATING (COLOR METALLIC) AFTER **FABRICATION**
- iii. THE BASIS OF DESIGN UP253 BENCH DIP TRADITIONAL ASSEMBLY SHALL BE:
  - (a) BENCH LEG: SHALL BE MADE OF 1-7/8" O.D. GALVANIZED PIPE.
  - (b) BENCH: SHALL BE FABRICATED OF PUNCHED STEEL METAL WITH A PLASTISOL COATING (METALLIC COLOR)
  - (c) HANDRAIL: SHALL BE AN ALL-WELDED CONSTRUCTION FABRICATED OF 1-5/16" O.D. GALVANIZED PIPE, 3/16" X 3" H.R. FLAT STEEL AND GALVANIZED PIPE CAPS.
  - (d) FINISH: THE BENCH LEGS AND HANDRAIL ASSEMBLIES SHALL ALL HAVE A POWDER COAT FINISH (METALLIC COLOR).
- iv. THE BASIS OF DESIGN UP251 BALANCE BEAM TRADITIONAL ASSEMBLY SHALL BE:

(a) BALANCE BEAM: SHALL BE 4" X 2" X 1/8" WALL RECTANGULAR STRUCTURAL STEEL. THE LEGS SHALL BE 1-7/8" O.D. (.075" WALL) GALVANIZED STEEL TUBING. THE BEAM SHALL BE AN ALL WELDED CONSTRUCTION. COAT FINISH.

(b) FINISH: THE BALANCE BEAM ASSEMBLY SHALL HAVE A POWDER COATED FINISH (METALLIC COLOR).

- v. THE BASIS OF DESIGN UP262 BODY CURL STATION TRADITIONAL ASSEMBLY SHALL BE
  - (a) SUPPORT ASSEMBLIES: SHALL BE AN ALL-WELDED CONSTRUCTION FABRICATED OF 2-3/8" O.D. STANDARD GALVANIZED PIPE, 3/16" X 6" H.R. FLAT STEEL FORMED PLATE AND 3/16" X 1-1/2" H.R. FLAT STEEL GUSSET.
  - (b) BENCH ASSEMBLY: SHALL BE FABRICATED OF PUNCHED STEEL METAL WITH A PLASTISOL COATING (METALLIC COLOR).
  - (c) BODY CURL BAR ASSEMBLY: SHALL BE AN ALL-WELDED CONSTRUCTION FABRICATED OF 1-5/16" O.D. GALVANIZED FORMED HANDRAIL, 3/16" X 3" H.R. FLAT STEEL HANDRAIL PLATE, AND GALVANIZED PIPE CAP.
  - (d) FINISH: LEG AND HANDRAIL ASSEMBLIES SHALL ALL HAVE A POWDER COAT FINISH (METALLIC COLOR).

- vi. THE BASIS OF DESIGN UP263 PARALLEL BAR TRADITIONAL ASSEMBLY SHALL BE:
- (a) PARALLEL BAR: SHALL BE 1-7/8" O.D. 11 GAUGE (.120") WALL GALVANIZED STEEL PIPE. THE BAR SHALL HAVE A POWDER COAT FINISH (METALLIC COLOR). G. ALL HARDWARE INCLUDING NUTS, BOLTS, SCREWS, INSERTS, AND LOCKWASHERS USED IN THE ASSEMBLY OF ALL PLAY EQUIPMENT, SHALL BE MECHANICALLY GALVANIZED. ALL
- PRIMARY FASTENERS SHALL BE 300 SERIES STAINLESS STEEL. SEE MANUFACTURER'S SPECIFICATIONS FOR HARDWARE REQUIRMENTS FOR EACH PIECE OF EQUIPMENT

#### 5. ADDITIONAL NOTES:

- A. INSTALL WOODCARPET® ENGINEERED WOOD FIBER SURFACING, ZEAGER BROS., INC., FRANKLIN, KY, OR EQUAL ALTERNATE PRODUCT, WITHIN THE USE ZONE UNDERNEATH EACH PIECE OF PLAYGROUND AND ADULT FITNESS EQUIPMENT.
- B. INCLUDE THE MANUFACTURERS' INSTRUCTIONAL SIGN FOR EACH PIECE OF EQUIPMENT AND THE INSTALLER WILL PLACE INSTRUCTIONAL SIGN PER MANUFACTURER'S INSTRUCTIONS OUTSIDE OF THE USE ZONE (ALSO REFERRED TO AS FALL ZONE).
- C. INCLUDE THE MANUFACTURERS' SIGN FOR EACH PLAYGROUND SPECIFYING APPROPRIATE USER AGES.
- D. COORDINATE WITH THE CITY OF GAINESVILLE AND CONSULTANT ARBORIST TO INSTALL OBSTACLES MINIMIZING DAMAGE TO EXISTING CITY OF GAINESVILLE REGULATED TREES.
- E. DESIGN REFERENCES. AS APPLICABLE TO OUTDOOR FITNESS EQUIPMENT, MANUFACTURERS' DESIGNS SHALL COMPLY WITH THE FOLLOWING STANDARDS IN THE FOLLOW **REFERENCES:** 
  - THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S ("CPSC" OR "COMMISSION") PUBLIC PLAYGROUND SAFETY HANDBOOK, PUBLICATION #325, DECEMBER 2015. F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE.
  - F2373 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PUBLIC USE PLAY EQUIPMENT FOR CHILDREN 6 MONTHS THROUGH 23 MONTHS.
  - iv. F1292 STANDARD SPECIFICATION FOR IMPACT ATTENUATION OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
  - v. F2075 STANDARD SPECIFICATION FOR ENGINEERED WOOD FIBER FOR USE AS A PLAYGROUND SAFETY SURFACE UNDER AND AROUND PLAYGROUND EQUIPMENT.
  - vi. F2223 STANDARD GUIDE FOR ASTM STANDARDS ON PLAYGROUND SURFACING.
  - vii. F2479 STANDARD GUIDE FOR SPECIFICATION, PURCHASE, INSTALLATION AND MAINTENANCE OF POURED-IN-PLACE PLAYGROUND SURFACING.
  - viii. F1951 STANDARD SPECIFICATION FOR DETERMINATION OF ACCESSIBILITY OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT ix. F1816 STANDARD SAFETY SPECIFICATION FOR DRAWSTRINGS ON CHILDREN'S UPPER OUTERWEAR.
  - x. F2049 STANDARD GUIDE FOR FENCES/BARRIERS FOR PUBLIC, COMMERCIAL, AND MULTI-FAMILY RESIDENTIAL USE OUTDOOR PLAY AREAS.
  - xi. F1148 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR HOME PLAYGROUND EQUIPMENT. xii. F1918 STANDARD SAFETY PERFORMANCE SPECIFICATION FOR SOFT CONTAINED PLAY EQUIPMENT

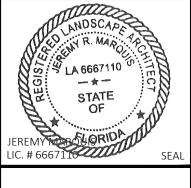
#### MATERIAL SPECIFICATIONS. MATERIALS SHALL MEET THE FOLLOWING CRITERIA:

- 1. ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY ALUMINUM PRODUCER AND FINISHER FOR TYPE OF USE AND FINISH INDICATED: FREE OF SURFACE BLEMISHES AND COMPLYING WITH THE FOLLOWING:
  - A. ROLLED OR COLD-FINISHED BARS, RODS, AND WIRE: ASTM B 211.
  - B. EXTRUDED BARS, RODS, WIRE, PROFILES, AND TUBES: ASTM B 221.
  - C. STRUCTURAL PIPE AND TUBE: ASTM B 429.
  - D. SHEET AND PLATE: ASTM B 209,
  - E. CASTINGS: ASTM B 26/B 26M.
  - F. STEEL AND IRON: FREE OF SURFACE BLEMISHES AND COMPLYING WITH THE FOLLOWING:
    - PLATES, SHAPES, AND BARS: ASTM A 36/A 36M.
    - STEEL PIPE: STANDARD-WEIGHT STEEL PIPE COMPLYING WITH ASTM A 53, OR ELECTRIC-RESISTANCE-WELDED PIPE COMPLYING WITH ASTM A 135.
    - iii. TUBING: COLD-FORMED STEEL TUBING COMPLYING WITH ASTM A 500.
    - iv. MECHANICAL TUBING: COLD-ROLLED, ELECTRIC-RESISTANCE-WELDED CARBON OR ALLOY STEEL TUBING COMPLYING WITH ASTM A 513, OR STEEL TUBING FABRICATED FROM STEEL COMPLYING WITH ASTM A 1011/A 1011M AND COMPLYING WITH DIMENSIONAL TOLERANCES IN ASTM A 500; ZINC COATED INTERNALLY AND EXTERNALLY. v. SHEET: COMMERCIAL STEEL SHEET COMPLYING WITH ASTM A 1011/A 1011M.
    - vi. PERFORATED METAL: FROM STEEL SHEET NOT LESS THAN 0.0897-INCH NOMINAL THICKNESS; MANUFACTURER'S STANDARD PERFORATION PATTERN.
    - vii. EXPANDED METAL: CARBON-STEEL SHEETS, DEBURRED AFTER EXPANSION, AND COMPLYING WITH ASTM F 1267.
    - viii. MALLEABLE-IRON CASTINGS: ASTM A 47/A 47M, GRADE AS RECOMMENDED BY FABRICATOR FOR TYPE OF USE INTENDED.
    - ix. GRAY-IRON CASTINGS: ASTM A 48/A 48M, CLASS 200.
    - x. STAINLESS STEEL: FREE OF SURFACE BLEMISHES AND COMPLYING WITH THE FOLLOWING:
    - xi. SHEET, STRIP, PLATE, AND FLAT BARS: ASTM A 666. xii. PIPE: SCHEDULE 40 STEEL PIPE COMPLYING WITH ASTM A 312/A 312M.
    - xiii. TUBING: ASTM A 554.
  - G. WOOD: SURFACED SMOOTH ON FOUR SIDES WITH EASED EDGES; KILN DRIED, FREE OF KNOTS, SOLID STOCK OF SPECIES INDICATED.
  - H. FIBERGLASS: MULTIPLE LAMINATIONS OF GLASS-FIBER-REINFORCED POLYESTER RESIN WITH UV-LIGHT STABLE, COLORFAST, NONFADING, WEATHER- AND STAIN-RESISTANT, COLORED POLYESTER GEL COAT, AND MANUFACTURER'S STANDARD FINISH.
  - I. PLASTIC: COLOR IMPREGNATED, COLOR AND UV-LIGHT STABILIZED, AND MOLD RESISTANT.
  - J. POLYETHYLENE: FABRICATED FROM VIRGIN PLASTIC HDPE RESIN OR RECYCLED POLYETHYLENE.
  - K. ANCHORS, FASTENERS, FITTINGS, AND HARDWARE: STAINLESS STEEL, MANUFACTURER'S STANDARD, CORROSION-RESISTANT-COATED OR NONCORRODIBLE MATERIALS; COMMERCIAL QUALITY, TAMPERPROOF, VANDAL AND THEFT RESISTANT, CONCEALED, RECESSED, AND CAPPED OR PLUGGED.
  - . NONSHRINK, NONMETALLIC GROUT: PREMIXED, FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107; RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
  - M. EROSION-RESISTANT ANCHORING CEMENT: FACTORY-PACKAGED, NONSHRINK, NONSTAINING, HYDRAULIC-CONTROLLED EXPANSION CEMENT FORMULATION FOR MIXING WITH POTABLE WATER AT PROJECT SITE TO CREATE POURABLE ANCHORING. PATCHING, AND GROUTING COMPOUND: RESISTANT TO EROSION FROM WATER EXPOSURE WITHOUT NEEDING PROTECTION BY A SEALER OR WATERPROOF COATING; RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
  - N. GALVANIZING: WHERE INDICATED FOR STEEL AND IRON COMPONENTS, PROVIDE THE FOLLOWING PROTECTIVE ZINC COATING APPLIED TO COMPONENTS AFTER FABRICATION: ZINC-COATED TUBING: EXTERNAL, ZINC WITH ORGANIC OVERCOAT, CONSISTING OF A MINIMUM OF 0.9 OZ./SQ. FT. OF ZINC AFTER WELDING, A CHROMATE CONVERSION
  - COATING, AND A CLEAR, POLYMER FILM. INTERNAL, SAME AS EXTERNAL OR CONSISTING OF 81 PERCENT ZINC PIGMENTED COATING, NOT LESS THAN 0.3 MIL THICK. HOT-DIP GALVANIZING: ACCORDING TO ASTM A 123/A 123M. ASTM A 153/A 153M. OR ASTM A 924/A 924M.
  - O. ENGINEERED WOOD FIBER: COMPOSED OF 100% PRE-CONSUMER RECOVERED RANDOMLY SIZED WOOD FIBERS. SIEVE ANALYSIS PER ASTM F2075. HAZARDOUS METAL CONTENT PER ASTM F2075. TRAMP METAL CONTENT PER ASTM F2075. IMPACT CRITERIA PER ASTM F1292-13. ACCESSIBILITY CRITERIA PER ASTM F1951-14. RESISTANCE TO FLAMMABILITY PER 16 FR PART 1630. FLAMMABILITY OF CARPETS AND RUGS PER FFI-70 MODIFIED PROCEDURE, AND DOES NOT IGNITE PER 16 CFR 1500.44, FEDERAL HAZARDOUS SUBSTANCES ACT TITLE 16, CHAPTER II, SUBCHAPTER C FOR RIGID AND PLIABLE AOLIDS. MEETS IPEMA CERTIFICATION OF 8"/8FT. AND 12"/12FT. FALL PROTECTION PER ASTM F1292.
- 2. MATERIAL FINISHES. FINISHES SHALL COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES, AND MEET THE FOLLOWING STANDARDS
- 3. ALUMINUM: BAKED-ENAMEL, POWDER-COAT FINISH: MANUFACTURER'S STANDARD, BAKED, POLYESTER, POWDER-COAT FINISH COMPLYING WITH FINISH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION, INCLUDING PRETREATMENT, APPLICATION, BAKING, AND MINIMUM DRY FILM THICKNESS
- 4. STEEL AND GALVANIZED STEEL: BAKED-ENAMEL, POWDER-COAT FINISH: MANUFACTURER'S STANDARD, BAKED, POLYESTER, POWDER-COAT FINISH COMPLYING WITH FINISH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION, INCLUDING PRETREATMENT, APPLICATION, BAKING, AND MINIMUM DRY FILM THICKNESS.
- 5. PVC: MANUFACTURER'S STANDARD, UV-LIGHT STABILIZED, MOLD-RESISTANT, SLIP-RESISTANT, MATTE-TEXTURED, DIPPED OR SPRAYED-ON, PVC-PLASTISOL FINISH, WITH FLAME RETARDANT ADDED; COMPLYING WITH COATING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PRETREATMENT, APPLICATION, AND MINIMUM DRY FILM THICKNESS. 6. STAINLESS-STEEL: REMOVE TOOL AND DIE MARKS AND STRETCH LINES OR BLEND INTO FINISH.
- 7. GRIND AND POLISH SURFACES TO PRODUCE UNIFORM, DIRECTIONALLY TEXTURED, POLISHED FINISH INDICATED, FREE OF CROSS SCRATCHES. RUN GRAIN WITH LONG DIMENSION OF EACH PIECE.

#### **SUBMITTALS**

- FOR CITY OF GAINESVILLE CONSIDERATION OF EQUIPMENT MANUFACTURERS, SUBMIT MANUFACTURERS' SHOP DRAWINGS INDICATING THE MODEL NUMBER, TYPE OF MATERIAL, MATERIAL FINISHES FOR FINAL COLOR SELECTION, ATTACHMENTS, DURABILITY TESTING STANDARDS FOR MATERIALS, AND DETAILS OF CONSTRUCTION.
- 2. PROVIDE MANUFACTURERS' TARGETED DESIGN BENEFITS FOR EACH TYPE OF EQUIPMENT TO INCLUDE SENSORY DEVELOPMENT, MOTOR AND COGNITIVE SKILL DEVELOPMENT, AND SOCIAL AND EMOTIONAL SKILL DEVELOPMENT. 3. INSTALLER SHALL SUBMIT THE TYPE, COLORS, DIRECTION OF TRAVEL, AND LOCATION OF EACH PIECE OF EQUIPMENT AS WELL AS THE PLACEMENT OF EACH STRUCTURE'S
- INSTRUCTIONAL SIGN WITH THE CITY OF GAINESVILLE FOR APPROVAL PRIOR TO INSTALLATION. 4. PRIOR TO INSTALLATION OF THE PIECES OF EQUIPMENT, SUBMIT A FLORIDA-LICENSED STRUCTURAL ENGINEER'S SIGNED AND SEALED DRAWINGS TO THE CITY OF GAINESVILLE. INSTALL OBSTACLES AND TRAVELING RING, COMPONENTS, AND HARDWARE ACCORDING TO THE MORE STRINGENT OF THE MANUFACTURERS' OR STRUCTURAL ENGINEER'S
- INSTRUCTIONS. 5. PROVIDE THE MANUFACTURERS' WRITTEN WARRANTY FOR ALL BUILT PRODUCTS PROTECTING AGAINST DEFECTS IN MATERIAL OR FACTORY WORKMANSHIP FOR A PERIOD OF 15 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 6. WORK UNDER THIS SECTION SHALL INCLUDE DEMONSTRATING THE PROPER USE AND OPERATION OF EQUIPMENT TO THE CITY OF GAINESVILLE AND DESIGN CONSULTANT.

▲       90% DESIGN SUBMITTAL       11/8/19         ▲       90% DESIGN SUBMITTAL       6/13/19         ★       00% DESIGN SUBMITTAL       2/1/19         ★       30% DESIGN SUBMITTAL       12/28/18         ★       DATE       APPR				
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	SYM	DESCRIPTION	DATE	APPR



34 Cordova Street, Suite A St. Augustine, FL 32084

Ph 904.825.6747 www.halback.com

PPROVED

PROJECT MANAGER: JM

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RIME PROJECT NO.: ML+H PROJECT NO.: 18.39.

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# GENERAL NOTES FOR TURF, PLANTS, AND IRRIGATION

1. CONTRACTOR SHALL PROVIDE LANDSCAPE BED PREPARATION, INCLUDING REMOVAL AND DISPOSAL OF EXISTING LANDSCAPE AND TREES (TREES TO REMAIN ARE NOTED ON PLAN). CONTRACTOR SHALL PULL ANY APPLICABLE

2. SPRAY DOWN BASE OF VERTICAL STRUCTURES TO REMOVE SOIL FROM CONSTRUCTION ACTIVITIES. ) $\angle 1^{\circ}$ 

3. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #I OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS INSTITUTE. PLANT SIZE IS TO TAKE PRECEDENCE OVER CONTAINER SIZE. 4. ALL TREES AND SHRUBS ARE TO BE POSITIONED VERTICALLY REGARDLESS OF THE SLOPE OF THE GROUND IN WHICH THEY ARE PLANTED. BERMS ARE TO CONSTRUCTED AT RIGHT ANGLES TO THE TREE OR SHRUB OR IN A MANNER IN

WHICH THEY WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.

5. WEEDS ARE TO BE ADEQUATELY AND PROPERLY TREATED AND REMOVED PRIOR TO LANDSCAPE INSTALLATION. ALL SOIL AMENDMENTS SHOULD BE CERTIFIED AS WEED-FREE FROM THE SUPPLIER.

6. LANDSCAPE MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR (INCLUDING MOWING, PRUNING, AND WEEDING) UNTIL PLANTING IS APPROVED BY THE LANDSCAPE ARCHITECT. THE LANDSCAPE CONTRACTOR MUST PROVIDE: (A.) A WARRANTY ON ALL TREES AND PALMS FOR A PERIOD OF (12) TWELVE MONTHS. (B.) A WARRANTY ON ALL SHRUBS AND GROUNDCOVERS FOR A PERIOD OF (12) TWELVE MONTHS. (C.) GUIDELINES FOR PROPER MAINTENANCE.

7. PLAN HAS BEEN DESIGNED TO ADHERE TO CITY OF GAINESVILLE REQUIREMENTS THAT ALL VEGETATION THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN FIFTEEN (15) FEET OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.

8. BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL, SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE PULLED AWAY FROM THE TRUNK.

9. NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 10 FEET FROM OTHER TREES AND CANOPY TREES NO CLOSER THAN 20-30 FEET, DEPENDING ON THE SPECIES.

DESIGN REFERENCES. THE FOLLOWING SPECIFICATIONS AND STANDARDS OF THE ORGANIZATIONS AND DOCUMENTS LISTED IN THIS PARAGRAPH FORM A PART OF THE SPECIFICATION TO THE EXTENT REQUIRED BY THE REFERENCES THERETO. IN THE EVENT THAT THE REQUIREMENTS OF THE FOLLOWING REFERENCED STANDARDS AND SPECIFICATION CONFLICT WITH THIS SPECIFICATION SECTION THE REQUIREMENTS OF THIS SPECIFICATION SHALL PREVAIL. IN THE EVENT THAT THE REQUIREMENTS OF ANY OF THE FOLLOWING REFERENCED STANDARDS AND SPECIFICATIONS CONFLICT WITH EACH OTHER THE MORE STRINGENT REQUIREMENT SHALL PREVAIL OR AS DETERMINED BY THE CITY OF

GAINESVILLE OR DESIGN CONSULTANT. 1. ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK, MOST CURRENT EDITION.

2. ANSI A 300 - STANDARD PRACTICES FOR TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE, MOST CURRENT EDITION AND PARTS.

3. FLORIDA GRADES AND STANDARDS FOR NURSERY STOCK, CURRENT EDITION (FLORIDA DEPARTMENT OF AGRICULTURE, TALLAHASSEE FL)

4. INTERPRETATION OF PLANT NAMES AND DESCRIPTIONS SHALL REFERENCE THE FOLLOWING DOCUMENTS. WHERE THE NAMES OR PLANT DESCRIPTIONS DISAGREE BETWEEN THE SEVERAL DOCUMENTS, THE MOST CURRENT DOCUMENT SHALL PREVAIL.

5. USDA - THE GERMPLASM RESOURCES INFORMATION NETWORK (GRIN) HTTP://WWW.ARS-GRIN.GOV/NPGS/SEARCHGRIN.HTML

6. MANUAL OF WOODY LANDSCAPE PLANTS; MICHAEL DIRR; STIPES PUBLISHING, CHAMPAIGN, ILLINOIS; MOST CURRENT EDITION.

7. GLOSSARY OF ARBORICULTURAL TERMS, INTERNATIONAL SOCIETY OF ARBORICULTURE, CHAMPAIGN IL, MOST CURRENT EDITION.

MATERIAL SPECIFICATIONS. MATERIALS SHALL MEET THE FOLLOWING CRITERIA:

1. TURFGRASS SOD: CERTIFIED, COMPLYING WITH "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" IN TPI'S "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING." FURNISH VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE, STRONGLY ROOTED, AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.

2. TURFGRASS SPECIES: BAHIA GRASS (PASPALUM NOTATUM)

3. PLANTING SOIL: FINE SAND OR LOAMY FINE SAND INDIGENOUS TO THE AREA SUITABLE FOR PLANT GROWTH THAT IS FREE OF WEEDS, ROOTS, STUMPS, ROCKS LARGER THAN 1/2" DIAMETER, ORGANIC MUCK, HARD PAN, TOXIC SUBSTANCES DETRIMENTAL TO PLANT GROWTH, AND CONSTRUCTION DEBRIS SUCH AS LIMEROCK, CONCRETE, AND ASPHALT PIECES. DELIVER IN A NORMALLY MOIST CONDITION, NEITHER MUDDY NOR WET. SOIL USED FOR TOPSOIL SHALL MEET THE FOLLOWING CRITERIA MEASURED IN ACCORDANCE WITH THE APPROPRIATE AASHTO AND ASTM STANDARD:

a. USDA TEXTURE: FINE SAND, LOAMY FINE SAND

b. AASHTO CLASSIFICATION: A-3

d. DELETERIOUS MATERIAL 0-2% MAXIMUM BY MASS (ROCKS, ROOTS, SOD)

e. ORGANIC MATTER CONTENT 1-10% BY MASS

f. SAND CONTENT 80-96% BY MASS

g. SILT & CLAY CONTENT 3-10% BY MASS h. USE EXISTING SOIL IN PLANT PITS IF THE SOIL COMPLIES WITH THE STANDARD FOR TOPSOIL, UNLESS THE SOIL IS CONTAMINATED WITH LIMEROCK, CLAY, BRUSH, WEEDS, ROOTS, STUMPS, STONES LARGER THAN 1 ½ INCHES IN ANY DIMENSION, LITTER AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. REMOVE CONTAMINATED SOIL AND REPLACE WITH ACCEPTABLE STOCKPILED EXISTING SOIL, NEW TOPSOIL OR YARD SAND.

4. ORGANIC SOIL AMENDMENTS. IN AREAS REQUIRING ADDITIONAL ORGANIC MATERIAL, PROVIDE 100% ORGANIC SOIL CONDITIONER, FREE OF LIMEROCK, CLAY, BRUSH, WEEDS, ROOTS, STUMPS, GRAVEL, LITTER AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. SOIL CONDITIONER SHALL BE ONE OF THE FOLLOWING: a. COMPOST: MEET REQUIREMENTS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULE 62.709.550 TYPE Y (YARD WASTE). COMPOST SHALL BE 100% ORGANIC YARD AND TREE TRIMMINGS WITH A 25/1

CARBON/NITROGEN RATIO, MATURE AND STABLE, FREE OF PATHOGENS, WEED SEEDS, AND DEBRIS, COMPOSTED FOR A MINIMUM OF 15 DAYS AT 131 DEGREES F., WITH AT LEAST 3 TURNINGS, THEN SHREDDED TO PASS THROUGH A 1/2 INCH MESH SCREEN. AVAILABLE FROM ENVIRO-COMP SERVICES, INC.; 11771 PHILLIPS HIGHWAY; JACKSONVILLE, FL 32256; 904-292-1828.

b. WOOD DERIVATIVES: DECOMPOSED, NITROGEN-TREATED SAWDUST, GROUND BARK, OR WOOD WASTE; OF UNIFORM TEXTURE AND FREE OF CHIPS, STONES, STICKS, SOIL, OR TOXIC MATERIALS. MECHANICALLY SHREDDED PINE BARK WITH AT LEAST 90% OF PARTICLE SIZE 1/2" OR LESS. IN LIEU OF DECOMPOSED WOOD DERIVATIVES, MIX PARTIALLY DECOMPOSED WOOD DERIVATIVES WITH AMMONIUM NITRATE AT A MINIMUM RATE OF 0.15 LB/CU. FT. OF LOOSE SAWDUST OR GROUND BARK, OR WITH AMMONIUM SULFATE AT A MINIMUM RATE OF 0.25 LB/CU. FT. OF LOOSE SAWDUST OR GROUND BARK

5. FERTILIZERS. COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST- AND SLOW-RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA FORMALDEHYDE, PHOSPHOROUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:

a. COMPOSITION: DEVELOP TO ADDRESS SOIL TEST. IF NO SOIL TEST IS REQUIRED, PROVIDE 1 LB/1000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM, BY WEIGHT.

b. COMPOSITION: NITROGEN, PHOSPHOROUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A QUALIFIED SOIL-TESTING LABORATORY.

6. PESTICIDES. REGISTERED AND APPROVED BY EPA, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND OF TYPE RECOMMENDED BY MANUFACTURER FOR EACH SPECIFIC PROBLEM AND AS REQUIRED FOR PROJECT CONDITIONS AND APPLICATION. DO NOT USE RESTRICTED PESTICIDES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.

7. PRE-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING THE GERMINATION OR GROWTH OF WEEDS WITHIN PLANTED AREAS AT THE SOIL LEVEL DIRECTLY BELOW THE MULCH LAYER. 8. POST-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING WEED GROWTH THAT HAS ALREADY GERMINATED.

1. FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE OR PLANT LIST SHOWN ON DRAWINGS AND COMPLYING WITH FLORIDA GRADES & STANDARDS (GRADE #1 OR BETTER; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSELY FOLIATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.

a. TREES WITH DAMAGED, CROOKED, OR MULTIPLE LEADERS; TIGHT VERTICAL BRANCHES WHERE BARK IS SQUEEZED BETWEEN TWO BRANCHES OR BETWEEN BRANCH AND TRUNK ("INCLUDED BARK"); CROSSING TRUNKS; CUT-OFF LIMBS MORE THAN 3/4 INCH IN DIAMETER; OR WITH STEM GIRDLING AND/OR CIRCLING ROOTS WILL BE REJECTED.

b. COLLECTED STOCK: DO NOT USE PLANTS HARVESTED FROM THE WILD, FROM NATIVE STANDS, FROM AN ESTABLISHED LANDSCAPE PLANTING, OR NOT GROWN IN A NURSERY UNLESS OTHERWISE INDICATED.

2. PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH FLORIDA GRADES & STANDARDS FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO ARCHITECT, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.

3. PLANT SIZE IS TO TAKE PRECEDENCE OVER CONTAINER SIZE. 4. ROOT-BALL DEPTH: FURNISH TREES AND SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO FLORIDA GRADES AND STANDARDS. ROOT FLARE SHALL BE VISIBLE

5. IF FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF PLANTS IS SHOWN ON DRAWINGS. SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER THE LABELS TO ASSURE SYMMETRY IN PLANTING

6. ALL PLANT MATERIAL SHALL BE GRADED #1 OR FLORIDA FANCY AS OUTLINED UNDER THE MOST CURRENT GRADES AND STANDARDS FOR NURSERY PLANTS. STATE PLANT BOARD OF FLORIDA.

# LAYOUT AND PLANTING SEQUENCE

1. RELATIVE POSITIONS OF ALL PLANTS AND TREES ARE SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT.

2. NOTIFY THE LANDSCAPE ARCHITECT, ONE (1) WEEK PRIOR TO LAYOUT. LAYOUT ALL INDIVIDUAL TREE AND SHRUB LOCATIONS. PLACE PLANTS ABOVE SURFACE AT PLANTING LOCATION OR PLACE A LABELED STAKE AT PLANTING LOCATION. LAYOUT BED LINES WITH PAINT FOR THE LANDSCAPE ARCHITECT'S APPROVAL. SECURE THE LANDSCAPE ARCHITECT'S ACCEPTANCE BEFORE DIGGING AND START OF PLANTING WORK.

#### PLANTING GUIDELINES: TREES. SHRUBS & GROUNDCOVER

1. ASSURE THAT SOIL MOISTURE IS WITHIN THE REQUIRED LEVELS PRIOR TO PLANTING. IRRIGATION, IF REQUIRED, SHALL NOT BE APPLIED LESS THAN 12 HOURS PRIOR TO PLANTING TO AVOID PLANTING IN MUDDY SOILS. 2. ASSURE THAT SOIL GRADES IN THE BEDS ARE SMOOTH AND AS SHOWN ON THE PLANS.

3. PLANTS SHALL BE PLANTED IN EVEN, TRIANGULARLY SPACED ROWS, AT THE INTERVALS CALLED OUT FOR ON THE DRAWINGS, UNLESS OTHERWISE NOTED.

4. DIG PLANTING HOLES TWO TIMES (2X) THE WIDTH OF THE ROOT BALL AND BACK FILL WITH PLANTING MIX. SEE "SOIL MIX" GUIDELINES

5. PRESS SOIL TO BRING THE ROOT SYSTEM IN CONTACT WITH THE SOIL.

6. SPREAD ANY EXCESS SOIL AROUND IN THE SPACES BETWEEN PLANTS.

7. APPLY MULCH TO THE BED BEING SURE NOT TO COVER THE TOPS OF THE PLANTS WITH OR THE TOPS OF THE ROOT BALL WITH MULCH.

WATER EACH PLANTING AREA AS SOON AS THE PLANTING IS COMPLETED. APPLY ADDITIONAL WATER TO KEEP THE SOIL MOISTURE AT THE REQUIRED LEVELS. DO NOT OVER WATER.

#### PLANTING SOIL: FOR ALL NON TURF PLANTINGS

1. FINE SAND OR LOAMY FINE SAND INDIGENOUS TO THE AREA SUITABLE FOR PLANT GROWTH THAT IS FREE OF WEEDS, ROOTS, STUMPS, ROCKS LARGER THAN 1/2" DIAMETER, ORGANIC MUCK, HARD PAN, TOXIC SUBSTANCES DETRIMENTAL TO PLANT GROWTH, AND CONSTRUCTION DEBRIS SUCH AS LIMEROCK, CONCRETE, AND ASPHALT PIECES. DELIVER IN A NORMALLY MOIST CONDITION, NEITHER MUDDY NOR WET. SOIL USED FOR TOPSOIL SHALL MEET THE FOLLOWING CRITERIA MEASURED IN ACCORDANCE WITH THE APPROPRIATE AASHTO AND ASTM STANDARD:

2. USDA TEXTURE: FINE SAND, LOAMY FINE SAND

3. AASHTO CLASSIFICATION: A-3

4. PH 5.0-7.5

5. DELETERIOUS MATERIAL 0-2% MAXIMUM BY MASS (ROCKS, ROOTS, SOD) 6. ORGANIC MATTER CONTENT 1-10% BY MASS

7. PREFERRED IS FINAL TESTED ORGANIC MATTER BETWEEN 2.75 AND 4% (BY DRY WEIGHT)

8. SAND CONTENT 80-96% BY MASS 9. SILT & CLAY CONTENT 3-10% BY MASS

10.USE EXISTING SOIL IN PLANT PITS IF THE SOIL COMPLIES WITH THE STANDARD FOR TOPSOIL, UNLESS THE SOIL IS CONTAMINATED WITH LIMEROCK, CLAY, BRUSH, WEEDS, ROOTS, STUMPS, STONES LARGER THAN 1 ½ INCHES IN ANY DIMENSION, LITTER AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. REMOVE CONTAMINATED SOIL AND REPLACE WITH ACCEPTABLE STOCKPILED EXISTING SOIL, NEW TOPSOIL OR YARD SAND. 11.ALL SHRUBS SHALL HAVE A PLANTING HOLE DUG 2X THE WIDTH AND DEPTH OF THE ROOT BALL. BACK FILL SHALL BE COMPOSED OF A SOIL MIX COMPOSED OF:

a. NATIVE TOP SOIL 45%-50%

b. COARSE SAND 40%-45% c. COMPOST 10%

# GENERAL NOTES FOR TURF, PLANTS, AND IRRIGATION (CON'T)

#### ORGANIC SOIL AMENDMENTS

- 1. PROVIDE 100% ORGANIC SOIL CONDITIONER, FREE OF LIMEROCK, CLAY, BRUSH, WEEDS, ROOTS, STUMPS, GRAVEL, LITTER AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. SOIL CONDITIONER SHALL BE ONE OF THE FOLLOWING:
- 2. COMPOST: MEET REQUIREMENTS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULE 62.709.550 TYPE Y (YARD WASTE). COMPOST SHALL BE 100% ORGANIC YARD AND TREE TRIMMINGS WITH A 25/1 CARBON/NITROGEN RATIO, MATURE AND STABLE, FREE OF PATHOGENS, WEED SEEDS, AND DEBRIS, COMPOSTED FOR A MINIMUM OF 15 DAYS AT 131 DEGREES F., WITH AT LEAST 3 TURNINGS, THEN SHREDDED TO PASS THROUGH A 1/2 INCH MESH SCREEN. AVAILABLE FROM ENVIRO-COMP SERVICES, INC.; 11771 PHILLIPS HIGHWAY; JACKSONVILLE, FL 32256; 904-292-1828.
- 3. WOOD DERIVATIVES: DECOMPOSED, NITROGEN-TREATED SAWDUST, GROUND BARK, OR WOOD WASTE; OF UNIFORM TEXTURE AND FREE OF CHIPS, STONES, STICKS, SOIL, OR TOXIC MATERIALS. MECHANICALLY SHREDDED PINE BARK WITH AT LEAST 90% OF PARTICLE SIZE 1/2" OR LESS. IN LIEU OF DECOMPOSED WOOD DERIVATIVES, MIX PARTIALLY DECOMPOSED WOOD DERIVATIVES WITH AMMONIUM NITRATE AT A MINIMUM RATE OF 0.15 LB/CU. FT. OF LOOSE SAWDUST OR GROUND BARK, OR WITH AMMONIUM SULFATE AT A MINIMUM RATE OF 0.25 LB/CU. FT. OF LOOSE SAWDUST OR GROUND BARK.

#### **FERTILIZERS**

1. COMMERCIAL FERTILIZER: COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST- AND SLOW-RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA FORMALDEHYDE, PHOSPHOROUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:

a. COMPOSITION: DEVELOP TO ADDRESS SOIL TEST. IF NO SOIL TEST IS REQUIRED, PROVIDE 1 LB/1000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM, BY WEIGHT.

b. COMPOSITION: NITROGEN, PHOSPHOROUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A QUALIFIED SOIL-TESTING LABORATORY.

1. PINE STRAW MULCH: PROVIDE AIR-DRY, CLEAN, MILDEW- AND SEED-FREE, MULCH TO MATCH EXISTING MULCH ON SURROUNDING PROPERTY.

- 2. SCHEDULE THE PLANTING TO OCCUR PRIOR TO APPLICATION OF THE MULCH. IF THE BED IS ALREADY MULCHED, PULL THE MULCH FROM AROUND THE HOLE AND PLANT INTO THE SOIL. DO NOT PLANT THE ROOT SYSTEM IN THE MULCH. PULL MULCH BACK SO IT IS NOT ON THE ROOT BALL SURFACE.
- 3. APPLY A MINIMUM OF 2-3 INCHES DEPTH OF PINE STRAW MULCH BEFORE SETTLEMENT, COVERING THE ENTIRE PLANTING BED AREA. INSTALL NO MORE THAN 1 INCH OF MULCH OVER THE TOP OF THE ROOT BALLS OF ALL PLANTS. TAPER TO 2 INCHES WHEN ABUTTING PAVEMENT.
- 4. FOR TREES PLANTED IN LAWN AREAS THE MULCH SHALL EXTEND TO A 5 FOOT RADIUS AROUND THE TREE OR TO THE EXTENT INDICATED ON THE PLANS AND SPACED AT LEAST SIX INCHES AWAY FROM THE TREE TRUNK. MULCH TREES IN TURF AREAS PRIOR TO HYDROSEEDING.
- 5. LIFT ALL LEAVES, LOW HANGING STEMS AND OTHER GREEN PORTIONS OF SMALL PLANTS OUT OF THE MULCH IF COVERED.

#### PESTICIDES

- 1. GENERAL: PESTICIDE, REGISTERED AND APPROVED BY EPA, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND OF TYPE RECOMMENDED BY MANUFACTURER FOR EACH SPECIFIC PROBLEM AND AS REQUIRED FOR PROJECT CONDITIONS AND APPLICATION. DO NOT USE RESTRICTED PESTICIDES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.
- 2. PRE-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING THE GERMINATION OR GROWTH OF WEEDS WITHIN PLANTED AREAS AT THE SOIL LEVEL DIRECTLY BELOW THE MULCH LAYER.
- 3. POST-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING WEED GROWTH THAT HAS ALREADY GERMINATED.

#### TREE STABILIZATION MATERIALS

1. STAKES AND GUYS ARE TO BE USED ONLY ON TRANSPLANTED TREES. STABILIZATION OF TRANSPLANTED TREES PER ARBORISTS DIRECTION.

2. ROOT STABILIZATION SYSTEM

a. CROSSBARS: ROUGH-SAWN, SOUND, NEW HARDWOOD OR SOFTWOOD, FREE OF KNOTS, HOLES, CROSS GRAIN, AND OTHER DEFECTS, 2X6 UNTREATED PINE, NOMINAL BY LENGTHS INDICATED, LOCATED ON BOTH SIDES OF THE TREE. QTY: 4 PER TREE.

b. STRAPS: 3/1" POLYESTER STRAPPING WITH PLASTIC OR METAL EARTH ANCHORS PER MANUFACTURER GUIDELINES.

c. STABILIZATION SYSTEM SHALL REMAIN IN PLACE TO NATURALLY DECAY IN PLACE. CUT POLYESTER STRAPS FOLLOWING ESTABLISHMENT

#### MISCELLANEOUS PRODUCTS

1. BURLAP: NON-SYNTHETIC, BIODEGRADABLE.

#### IRRIGATION GENERAL NOTES

1. ALL PRODUCTS ARE TO BE THOSE EXPRESSED OR IMPLIED ON THE DRAWINGS.

2. ALL PRODUCTS MUST CONFORM TO THEIR RESPECTIVE CODES AND REGULATIONS.

3. ALL PRODUCTS ARE TO BE INSTALLED AND UTILIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, FLORIDA IRRIGATION SOCIETY STANDARDS, AND GENERAL IRRIGATION INSTALLATION STANDARDS AND SOUTHERN STANDARD BUILDING AND CONGRESS CODES.

4. ALL MATERIALS SHALL BE OF STANDARD, APPROVED AND FIRST GRADE QUALITY AND SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND ACCEPTED

5. ALL CONTROLLERS, VALVES, AND HEADS SHALL BE MANUFACTURED BY THE FOLLOWING MANUFACTURER(S) (OR APPROVED EQUAL).

a. ALL EQUIPMENT SHALL BE RAINBIRD. b. HUNTER IS AN APPROVED EQUAL.

6. APPROVAL OF ANY ITEMS OR SUBSTITUTIONS INDICATES ONLY THAT THE PRODUCT(S) APPARENTLY MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS ON THE BASIS OF THE INFORMATION OR SAMPLES SUBMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF SUBSTITUTED ITEMS. IF THE SUBSTITUTION PROVES TO BE UNSATISFACTORY OR NOT COMPATIBLE WITH OTHER PARTS OF THE SYSTEM, THE CONTRACTOR SHALL REPLACE SAID ITEMS WITH THE ORIGINALLY SPECIFIED ITEMS, INCLUDING ALL NECESSARY WORK AND MODIFICATIONS TO REPLACE THE ITEMS, AT NO COST TO THE OWNER.

#### IRRIGATION PIPING MATERIAL

1. INDIVIDUAL TYPES OF PIPE AND FITTINGS SUPPLIED ARE TO BE OF COMPATIBLE MANUFACTURER UNLESS OTHERWISE APPROVED. PIPE SIZES SHOWN ARE NOMINAL INSIDE DIAMETER UNLESS OTHERWISE NOTED.

- a. ALL PIPE SHALL BE FREE OF BLISTERS, INTERNAL STRIATIONS, CRACKS, OR ANY OTHER DEFECTS OR IMPERFECTIONS. THE PIPE SHALL BE CONTINUOUSLY AND PERMANENTLY MARKED WITH THE FOLLOWING INFORMATION: MANUFACTURER'S NAME OR TRADE MARK, SIZE, CLASS AND TYPE OF PIPE PRESSURE RATING, QUALITY CONTROL IDENTIFICATIONS, DATE OF EXTRUSION, AND NATIONAL SANITATION FOUNDATION (NSF) RATING. b. PRESSURE MAIN LINE FOR PIPING UPSTREAM OF REMOTE CONTROL VALVES AND QUICK COUPLING VALVES:
- c. PIPE SMALLER THAN 2 INCH DIAMETER (TYPICAL OF LATERALS) SHALL BE PLASTIC PIPE FOR USE WITH SOLVENT WELD OR THREADED FITTINGS. SHALL BE MANUFACTURED RIGID VIRGIN POLYVINYL CHLORIDE (PVC) 1220, TYPE 1 GRADE 2 CONFORMING TO ASTM D 1785, DESIGNATED AS SCHEDULE 40. d. PIPE 2 - 3 INCH DIAMETER SHALL BE MANUFACTURED RIGID VIRGIN POLYVINYL CHLORIDE (PVC), TYPE 1, GRADE 2 CONFORMING TO ASTM D 1785, DESIGNATED AS BELL GASKET CLASS 315.

e. PIPE LARGER THAN 3 INCH DIAMETER (TYPICAL OF MAINLINE) SHALL BE MANUFACTURED RIGID VIRGIN POLYVINYL CHLORIDE (PVC), TYPE 1, GRADE 2 CONFORMING TO ASTM D 1785, DESIGNATED AS BELL GASKET CLASS 200

- 3. NON PRESSURE LATERAL LINE FOR PIPING DOWNSTREAM OF REMOTE CONTROL VALVES: PLASTIC PIPE FOR USE WITH SOLVENT WELD OR THREADED FITTINGS. SHALL BE MANUFACTURED RIGID VIRGIN POLYVINYL CHLORIDE PVC 1220 (TYPE 1, GRADE 2) CONFORMING TO ASTM D 1785, DESIGNATED AS CLASS 200, ¾" MINIMUM SIZE.
- 4. GALVANIZED PIPE SHALL BE USED FOR ABOVE GROUND CONNECTIONS TO, BACKFLOW PREVENTION DEVICE ASSEMBLIES, HOSE BIBS, AND BOOSTER PUMPS AND AS SHOWN ON THE PLANS AND DETAILS.

#### FITTINGS AND CONNECTIONS:

- 1. POLYVINYL CHLORIDE PIPE FITTINGS AND CONNECTIONS: TYPE II, GRADE 1, SCHEDULE 40, HIGH IMPACT MOLDED FITTINGS, MANUFACTURED FROM VIRGIN COMPOUNDS AS SPECIFIED FOR PIPING TAPERED SOCKET OR MOLDED THREAD TYPE, SUITABLE FOR EITHER SOLVENT WELD OR SCREWED CONNECTIONS. MACHINE THREADED FITTINGS AND PLASTIC SADDLE AND FLANGE FITTINGS ARE NOT ACCEPTABLE. FURNISH FITTINGS PERMANENTLY MARKED WITH FOLLOWING INFORMATION: NOMINAL PIPE SIZE, TYPE AND SCHEDULE OF MATERIAL, AND NATIONAL SANITATION FOUNDATION (NSF) SEAL OF APPROVAL. PVC FITTINGS SHALL CONFORM TO ASTM D2464 AND D2466.
- 3. PVC SCHEDULE 80 THREADED RISERS AND NIPPLES: TYPE I, GRADE 1, SCHEDULE 80, HIGH IMPACT MOLDED, MANUFACTURED FROM VIRGIN COMPOUNDS AS SPECIFIED FOR PIPING AND CONFORMING TO ASTM D-2464. THREADED ENDS SHALL BE MOLDED THREADS ONLY. MACHINED THREADS ARE NOT ACCEPTABLE. 4. GALVANIZED PIPE FITTINGS SHALL BE GALVANIZED MALLEABLE IRON GROUND JOINT SCHEDULE 40 CONFORMING TO APPLICABLE CURRENT ASTM STANDARDS.

2. BRASS PIPE FITTINGS, UNIONS AND CONNECTIONS: STANDARD 125 POUND CLASS 85% RED BRASS FITTINGS AND CONNECTIONS, IPS THREADED.

a. PIPE SHALL BE HOT DIP GALVANIZED CONTINUOUS WELDED, SEAMLESS, SCHEDULE 40 CONFORMING TO APPLICABLE CURRENT ASTM STANDARDS.

- SOLVENT CEMENTS AND THREAD LUBRICANT 1. SOLVENT CEMENTS SHALL COMPLY WITH ASTM D2564. SOCKET JOINTS SHALL BE MADE PER RECOMMENDED PROCEDURES FOR JOINING PVC PLASTIC PIPE AND FITTINGS WITH PVC SOLVENT CEMENT AND PRIMER BY THE PIPE AND FITTING MANUFACTURER AND PROCEDURES OUTLINED IN THE APPENDIX OF ASTM D2564.
- 2. THREAD LUBRICANT SHALL BE TEFLON RIBBON-TYPE, OR APPROVED EQUAL, SUITABLE FOR THREADED INSTALLATIONS AS PER MANUFACTURER'S RECOMMENDATIONS.
- 3. PIPE JOINT COMPOUND (PIPE DOPE) SHALL BE USED ON ALL GALVANIZED THREADED CONNECTIONS. PIPE JOINT COMPOUND IS A WHITE COLORED, NON-SEPARATING THREAD SEALANT COMPOUND DESIGNED TO SEAL THREADED CONNECTIONS AGAINST LEAKAGE DUE TO INTERNAL PRESSURE. IT SHALL CONTAIN PTFE (POLYTETRAFLUOROETHYLENE) TO PERMIT A TIGHTER ASSEMBLY WITH LOWER TORQUE, SECURE PERMANENT SEALING OF ALL THREADED CONNECTIONS AND ALLOW FOR EASY DISASSEMBLY WITHOUT STRIPPING OR DAMAGING THREADS.

#### BACKFLOW PREVENTION DEVICES

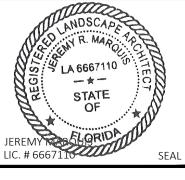
1. SEE NOTES BY CIVIL ENGINEER.

- 2. SWING CHECK VALVES 2 INCH AND SMALLER SHALL BE 200 LBS., W.O.G., BRONZE CONSTRUCTION WITH REPLACEABLE COMPOSITION, NEOPRENE OR RUBBER DISC AND SHALL MEET OR EXCEED FEDERAL SPECIFICATION WW-V 5LD, CLASS A, TYPE IV.
- 3. ANTI DRAIN VALVES SHALL BE OF HEAVY DUTY VIRGIN PVC CONSTRUCTION WITH FEMALE IRON PIPE THREAD INLET AND OUTLET. INTERNAL PARTS SHALL BE STAINLESS STEEL AND NEOPRENE. ANTI DRAIN VALVES SHALL BE FIELD ADJUSTABLE AGAINST DRAW OUT FROM 5 TO 40 FEET OF HEAD.
- 4. CHECK VALVES SHALL BE AS INDICATED ON THE DRAWINGS.

- 1. REMOTE CONTROL VALVES SHALL BE ELECTRICALLY OPERATED, SINGLE SEAT, NORMALLY CLOSED CONFIGURATION, EQUIPPED WITH FLOW CONTROL ADJUSTMENT AND CAPABILITY FOR MANUAL OPERATION.
- 2. VALVES SHALL BE ACTUATED BY A NORMALLY CLOSED LOW WATTAGE SOLENOID USING 24 VOLTS, 50/60 CYCLE SOLENOID POWER REQUIREMENT. SOLENOID SHALL BE EPOXY ENCASED. A UNION SHALL BE INSTALLED ON THE
- 3. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SAME NUMERICAL SEQUENCE AS INDICATED ON DRAWINGS
- 4. REMOTE CONTROL VALVES SHALL BE AS INDICATED ON THE DRAWINGS.

▲       90% DESIGN SUBMITTAL       11/8/19         ▲       90% DESIGN SUBMITTAL       6/13/19         60% DESIGN SUBMITTAL       2/1/19         80% DESIGN SUBMITTAL       12/28/18         80% DESIGN SUBMITTAL       DATE				
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34 Cordova Street, Suite A St. Augustine, FL 32084

Ph 904.825.6747 www.halback.co LC0000391

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#### GENERAL NOTES FOR TURF, PLANTS, AND IRRIGATION (CON'T)

- ALL SPRINKLER HEADS SHALL HAVE CHECK VALVES INSTALLED.
   ALL SPRINKLER HEADS SHALL BE AS INDICATED ON THE DRAWINGS
- :. RISER NIPPLES FOR ALL SPRINKLER HEADS SHALL BE THE SAME SIZE AS THE RISER OPENING IN THE SPRINKLER BODY AND FABRICATED AS SHOWN ON THE DRAWINGS.

#### AUTOMATIC CONTROLLER + COMMUNICATION CARTRIDGE

1. CONTRACTOR SHALL CONNECT TO EXISTING CONTROLLERS ON SITE.

#### CONTROLLER DECODERS (ONLY REQUIRED IF CONNECTING TO EXISTING 2-WIRE CONTROLLER)

- 1. DECODER SHALL BE FULLY COMPATIBLE WITH AUTOMATIC CONTROLLER AND REMOTE CONTROL VALVES.
- 2. WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS

#### IRRIGATION ELECTRICAL CONTROL WIRING

- 1. LOW VOLTAGE
  - a. THE ELECTRICAL CONTROL WIRE SHALL BE DIRECT BURIAL TYPE UF. NO. 14 AWG. SOLID, SINGLE CONDUCTOR, COPPER WIRE UL APPROVED OR LARGER, IF REQUIRED TO OPERATE SYSTEM AS DESIGNED.
  - b. FOR 2-WIRE CONTROLLERS ALL IRRIGATION WIRE FOR THE CONTROLLER, FLOW SENSOR, MASTER VALVE, HYDROMETER, REMOTE CONTROL VALVES AND MOISTURE SENSORS SHALL BE PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
  - c. COLOR CODE WIRES TO EACH VALVE. COMMON WIRE SHALL BE WHITE.
- d. IF MULTIPLE CONTROLLERS ARE BEING UTILIZED, AND WIRE PATHS OF DIFFERENT CONTROLLERS CROSS EACH OTHER, BOTH COMMON AND CONTROL WIRES FROM EACH CONTROLLER TO BE OF DIFFERENT COLORS.
- e. CONTROL WIRE SPLICES: SPLICES ARE WHEN REQUIRED SHALL BE PLACED IN SPLICE BOXES.
- f. WIRE CONNECTIONS SHALL BE PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2. HIGH VOLTAGE
  - a. SHALL BE OF TYPE AS REQUIRED BY LOCAL CODES AND ORDINANCES.
- b. SHALL BE OF PROPER SIZE TO ACCOMMODATE NEEDS OF EQUIPMENT IT IS TO SERVE.

#### IRRIGATION VALVE BOXES AND MATERIALS

- 1. VALVE BOXES: VALVE BOXES SHALL BE CONSTRUCTED OF ABS (ACRYLONITRILE BUTADIENE STYRENE) PLASTIC, GREEN IN COLOR, WITH RIGID BASE AND SIDES AND SHALL BE SUPPLIED WITH BOLT LOCK COVER SECURED WITH
- STAINLESS STEEL BOLTS. COVER SHALL BE IDENTIFIED WITH NUMBER OF ZONE OR WITH VALUE IDENTIFICATION TAGPROVIDE BOX EXTENSIONS AS REQUIRED
- 2. MASTER VALVES, FLOW SENSORS, REMOTE CONTROL IRRIGATION VALVES, GATE VALVES, AND BALL VALVES 3 INCH OR LESS IN SIZE SHALL USE A 14 INCH X 19 INCH X 12 INCH RECTANGULAR BOX
- 3. QUICK COUPLER VALVES. WIRE SPLICES, AND GROUNDING RODS SHALL USE A 10 INCH CIRCULAR BOX.
- 4. LETTERING: "VALVE BOX" OR "IRRIGATION".

#### CONCRETE THRUST BLOCKS

CONCRETE THRUST BLOCKS SHALL BE SIZED PER THE PIPE MANUFACTURES REQUIREMENT.

#### IRRIGATION VALVE IDENTIFICATION TAGS

1. VALVE IDENTIFICATION TAGS SHALL BE 2.25 INCH X 2.65 INCH Y 2.65 INCH POLYURETHANE. COLOR: POTABLE WATER; YELLOW / NON-POTABLE WATER; PURPLE. TAGS SHALL BE PERMANENTLY ATTACHED TO EACH REMOTE CONTROL VALVE WITH TAMPER PROOF SEALS AS INDICATED ON THE DRAWINGS

#### IRRIGATION INCIDENTAL MATERIALS AND EQUIPMENT

1. FURNISH ALL MATERIALS AND EQUIPMENT NOT SPECIFIED ABOVE, BUT WHICH ARE NECESSARY FOR COMPLETION OF THE WORK AS INTENDED.

#### MAIN LINE LOCATOR TAPE

1. 3 - INCH WIDE PLASTIC DETECTABLE LOCATOR TAPE.

1. SAND SHALL CONSIST OF NATURAL OR MANUFACTURED GRANULAR MATERIAL, FREE OF ORGANIC MATERIAL, MICA, LOAM, CLAY OR OTHER SUBSTANCES NOT SUITABLE FOR THE INTENDED PURPOSE.

2. SAND SHALL BE MASONRY SAND ASTM C 144 OR COARSE CONCRETE SAND, ASTM C 33.

#### SUBMITTALS

- ALL SUBMITTALS ARE TO BE MADE IN WRITING PER THE GENERAL CONDITIONS.
- 2. LANDSCAPE CONTRACTOR QUALIFICATIONS: SUBMIT CONTRACTOR QUALIFICATIONS BEFORE AWARD, IF REQUESTED. INCLUDE THE DATE THE BUSINESS WAS ESTABLISHED AND A LIST OF 3 COMPLETED INSTALLATIONS OF SIMILAR SCOPE. INCLUDE LOCATION; NAME AND ADDRESS OF OWNER; AND DATE WHEN EACH PROJECT WAS COMPLETED.
- a. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN WORK IS IN PROGRESS
- b. MAINTENANCE PROXIMITY: NOT MORE THAN TWO (2) HOURS' NORMAL TRAVEL TIME FROM INSTALLER'S PLACE OF BUSINESS TO PROJECT SITE.
- c. PESTICIDE APPLICATOR: STATE LICENSED, COMMERCIAL.
- 3. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. a. SOIL TESTING, IF REQUESTED BY OWNER.
- b. FERTILIZERS.
- c. PESTICIDES AND HERBICIDES: INCLUDE PRODUCT LABEL AND MANUFACTURER'S APPLICATION INSTRUCTIONS SPECIFIC TO THIS PROJECT
- d. CERTIFICATION OF GRASS SEED: FROM SEED VENDOR FOR EACH GRASS-SEED MONOSTAND OR MIXTURE STATING THE BOTANICAL AND COMMON NAME, PERCENTAGE BY WEIGHT OF EACH SPECIES AND VARIETY, AND PERCENTAGE OF PURITY, GERMINATION, AND WEED SEED. INCLUDE THE YEAR OF PRODUCTION AND DATE OF PACKAGING
- 4. PRODUCT CERTIFICATES: FOR SOIL AMENDMENTS AND FERTILIZERS, FROM MANUFACTURER.
  - a. MAINTENANCE INSTRUCTIONS: RECOMMENDED PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF TURF DURING A CALENDAR YEAR. SUBMIT BEFORE EXPIRATION OF REQUIRED INITIAL MAINTENANCE
- 5. IRRIGATION EQUIPMENT TO BE FURNISHED TO OWNER
- a. TWO (2) SETS OF KEYS FOR EACH AUTOMATIC CONTROLLER.
- b. TWO (2) 48 INCH TEE WRENCHES FOR OPERATING THE GATE VALVES.
- c. THREE (3) SETS OF SPECIAL TOOLS REQUIRED FOR REMOVING, DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER AND VALVE SUPPLIED ON THIS PROJECT.
  d. FIVE (5) EXTRA SPRINKLER HEADS, NOZZLES, SHRUB ADAPTERS, NOZZLE FILTER SCREENS, FOR EACH TYPE USED ON THE PROJECT.
- e. (IF APPLICABLE) TWO (2) QUICK COUPLER KEYS TO MATCH MANUFACTURER TYPE OF QUICK COUPLER.

- 1. SPECIAL WARRANTY: INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.
- 2 FAILURES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING
  - a. DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE, LACK OF ADEQUATE MAINTENANCE, OR NEGLECT BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL. b. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER
  - c. FAULTY PERFORMANCE OF TREE STABILIZATION.
  - d. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
- 3. WARRANTY PERIODS FROM DATE OF SUBSTANTIAL COMPLETION:
- a TREES SHRUBS VINES AND ORNAMENTAL GRASSES: TWELVE (12) MONTHS
- b. GROUND COVERS, BIENNIALS, PERENNIALS, AND OTHER PLANTS: TWELVE (12) MONTHS.
- 4. INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
- a. IMMEDIATELY REMOVE DEAD PLANTS AND REPLACE UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
- b. REPLACE PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
- c. PROVIDE EXTENDED WARRANTY FOR PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD, FOR REPLACED PLANT MATERIAL.

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Δ	90% DESIGN SUBMITTAL	6/13/19	
	60% DESIGN SUBMITTAL	2/1/19	
	30% DESIGN SUBMITTAL	12/28/18	
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GAINESVILLE, FL 32627 TRAILHEAD

FLATWOODS 31ST AVENUE, + PARK 1710 NORTHEAST UNITY

RIME PROJECT NO L+H PROJECT NO.:

RAWING NO.

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OWNER'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS	STORM	WATER POLLUTI	ON PREVENTION	N PLA	.N			
PROJECT NAME: UNITY PARK AND FLATWOODS TRAILHEAD	THE FOLLOWING TEMPLATE MAY BE USI DEVELOPMENT OF A STORMWATER POL	ED AS A GENERAL GUIDE FOR	GIVE A DETAILED DESCRIPTION OF ALL OPERACTICES (BMPS) AND MEASURES THAT	CONTROLS, BEST MANAGEMENT	OFFSITE VE	HICLE TRACK			
LOCATION: 1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 32627	FOR CONSTRUCTION ACTIVITIES. THIS TE APPLICABLE REQUIREMENTS FOR ALL CO THE DEPARTMENT'S GENERIC PERMIT FO	MPLATE MAY NOT CONTAIN ALL DNSTRUCTION SITES. PLEASE REFER TO	CONSTRUCTION SITE FOR EACH ACTIVIT SEQUENCE OF MAJOR SOIL DISTURBING FRAMES IN WHICH THE CONTROLS WILI	Y IDENTIFIED IN THE INTENDED G ACTIVITIES SECTION. PROVIDE TIME	CONSTRUC	TION ENTINA	NGES, EXITS.		
LATITUDE / LONGITUDE (PARK): 29.682090°N, 82.302490°W LATITUDE / LONGITUDE (TRAILHEAD): 29.681646°N,	LARGE AND SMALL CONSTRUCTION ACT 62-621.300(4)(A) TO VERIFY THAT YOU A REQUIREMENTS. PART V OF THE ABOVE	IVITIES, DEP DOCUMENT ARE MEETING ALL PERMIT	CONTROLS SHALL BE CONSISTENT WITH EROSION AND SEDIMENT CONTROL AND FORTH IN S. 62-40.432, F.A.C., THE APPL	I PERFORMANCE STANDARDS FOR D STORMWATER TREATMENT SET					
S2.298527°W  OWNER NAME AND ADDRESS: CITY OF GAINESVILLE,	SPECIFICALLY LISTS REQUIREMENTS OF T		ENVIRONMENTAL RESOURCE PERMITTII DEPARTMENT OR A WATER MANAGEMI	NG REQUIREMENTS OF THE		R APPLICATION	ON RATES OF		
TORIDA, A MUNICIPAL CORPORATION, D/B/A GAINESVILLE, FLORIDA, A MUNICIPAL CORPORATION, D/B/A GAINESVILLE REGIONAL UTILITIES, P.O. BOX 147117, STA. A130, GAINESVILLE, FL 32614-7117	THE SWPPP SHALL BE COMPLETED I     NOTICE OF INTENT (NOI) TO BE COV     GENERIC PERMIT FOR STORMWATE     SMALL CONSTRUCTION ACTIVITIES.	/ERED UNDER THE DEPARTMENT'S	CONTAINED IN THE FLORIDA DEVELOPN LAND AND WATER MANAGEMENT (DEP AMENDMENTS.	MENT MANUAL: A GUIDE TO SOUND		USED AT THE			
DESCRIPTION: PARCEL IS PINE FLATWOODS WITH SAW PALMETTO UNDERSTORY, WITH DRAINAGE IN ROUGHLY A NORTHWEST TO SOUTHEAST DIRECTION. SITE RUNOFF IS COLLECTED IN A DITCH IMMEDIATELY WEST OF THE GRU HIGH VOLTAGE TOWER AT NE 315T AVENUE, WHICH FLOWS NORTHWARD TO THE DITCH SYSTEM SERVING STATE ROAD 222 (NE 39TH AVENUE) AND EVENTUALLY DISCHARGES TO LITTLE HATCHET CREEK, WHICH IS LISTED AS IMPAIRED BUT HAS NO ESTABLISHED TMOL. SOILS ARE LISTED, PER THE GEOTECHNICAL REPORT, AS POORLY DRAINED SAND WITH A RELATIVELY HIGH WATER TABLE.	THE SWPPP SHALL BE AMENDED W DESIGN, CONSTRUCTION, OPERATIC SIGNIFICANT EFFECT ON THE POTER TO SURFACE WATERS OF THE STATE SEWER SYSTEM (MSAL). THE SWPPP TO BE INEFFECTIVE IN SIGNIFICANT SOURCES IDENTIFIED IN PART V.D.1. SHALL BE AMENDED TO INDICATE A.  SHALL BE AMENDED TO INDICATE A.  1. THE SWPPP SHALL BE AMENDED TO INDICATE A.  1. THE	DN, OR MAINTENANCE, WHICH HAS A VITIAL FOR DISCHARGE OF POLLUTANTS E OR A MUNICIPAL SEPARATE STORM ALSO SHALL BE AMENDED IF IT PROVES LY REDUCING POLLUTANTS FROM . OF THE PERMIT. THE SWPPP ALSO INY NEW CONTRACTOR AND/OR EMENT ANY MEASURE OF THE SWPPP. D, DATED, AND KEPT AS					TION, RATION OF ALL		
SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING AND TREE REMOVAL THROUGHOUT THE SITE; TERENCHING FOOR IRRIGATION AND UTILITY CONDUITS; EARTHWORKS (CUT AND FILL); ROADING AND TRACKING FOR NEW PARKING LOT, TURNAROUND, AND CIRCULAR PATH.  RUNOFF CURVE NUMBERS:  1. PRE-CONSTRUCTION =  2. DURING CONSTRUCTION =  3. POST-CONSTRUCTION =	"I CERTIFY UNDER PENALTY OF LAW THA ATTACHMENTS WERE PREPARED UNDER ACCORDANCE WITH A SYSTEM DESIGNE PERSONNEL PROPERLY GATHERED AND I SUBMITTED. BASED ON MY INQUIRY OF MANAGE THE SYSTEM, OR THOSE PERSC GATHERING THE INFORMATION, THE IN! BEST OF MY KNOWLEDGE AND BELIEF, T AWARE THAT THERE ARE SIGNIFICANT P INFORMATION, INCLUDING THE POSSIBI INOWING VIOLATIONS."	NMY DIRECTION OR SUPERVISION IN D TO ASSURE THAT QUALIFIED EVALUATED THE INFORMATION THE PERSON OR PERSONS WHO DIS DIRECTLY RESPONSIBLE FOR FORMATION SUBGETLY RESPONSIBLE FOR FORMATION SUBMITTED IS, TO THE RUGAL AND COMPLETE. I AM ENALTIES FOR SUBMITTING FALSE	DESCRIBE ALL TEMPORARY AND PERMA STABILIZATION PRACTICES INCLUDE TEN PERMANENT SEEDING, GEOTEXTILES, SC STRIPS, PROTECTION OF TREES, VEGETA	MPORARY SEEDING, MULCHING, OD STABILIZATION, VEGETATIVE BUFFER	PROVIDE A	AL AND NON-	ESCRIPTION OF THE MA- STRUCTURAL CONTRC EFFECTIVE OPERATING	OLS TO ASSURE THAT T	
EXISTING SOILS TYPE: THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) SOIL SURVEY OF ALACHUA COUNTY,	NAME (OPERATOR AND/OR RESPONSIBL	E AUTHORITY) DATE							
FLORIDA DESCRIBES THE NEAR-SURFACE SOIL PROFILE IN THE PROJECT PARCEL AS POMONA SANDS. ESTIMATED SEASONAL HIGH WATER LEVELS (SHWLS):	PROJECT NAME AND LOCATION INFORM	· 							
NORMAL SEASONAL HIGH GROUNDWATER LEVEL WILL OCCUR BETWEEN 2 AND 3 FEET BELOW THE GROUND SURFACE IN THE GENERAL AREA OF THE PROJECT SITE.			DESCRIBE ALL STRUCTURAL CONTROLS						
	CITE DESCRIPTION		STORMWATER FLOW FROM EXPOSED S STORE FLOWS, RETAIN SEDIMENT ON-S STORMWATER RUNOFF. THESE CONTRO	ITE OR IN ANY OTHER WAY LIMIT					
SITE CONSTRUCTION DOCUMENTS (SHEET):  * SITE OVERVIEW (1-1.0)  * FOR PLACEMENT OF SILT FENCING, TREE PROTECTION FENCING, ENTRY/EXIT POINT AND STAGING AREA SEE SHEETS: DEMOLITION + SITE PREPARATION - PARK (1-1.1); DEMOLITION + SITE PREPARATION - TRAILHEAD (1-1.2); AND TREE PROTECTION DETAILS (1-1.3).  ** FOR REQUIREMENTS FOR TEMPORARY AND	SITE DESCRIPTION DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:		DIVERSIONS, SWALES, SEDIMENT TRAPS PIPE SLOPE DRAINS, LEVEL SPREADERS, ROCK OUTLET PROTECTION, REINFORCE COAGULATING AGENTS AND TEMPORA	S, CHECK DAMS, SUBSURFACE DRAINS, STORM DRAIN INLET PROTECTION, ED SOIL RETAINING SYSTEMS, GABIONS,	PROCEDURI MUST OCCU	ES, AS REQUI JR AT LEAST	THE INSPECTION AND IRED BY PART V.D.4. OF ONCE A WEEK AND WI S 0.50 INCHES OR GREA	F THE PERMIT. INSPEC ITHIN 24 HOURS OF TI	TIONS HE END
PERMANENT STABILIZATION, AND EROSION CONTROL. NOTES, AND LANDSCAPING, SEE NOTES ON SHEETS: L-0.1, C-09, AND C-10.  * SEE CIVIL SHEETS FOR GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES: C-01, C-04, AND C-05.	DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:								
	TOTAL AREA OF THE SITE:	ACRES	DESCRIBE ALL SEDIMENT BASINS TO BE DISTURB 10 OR MORE ACRES AT ONE TI EQUIVALENT ALTERNATIVE) SHOULD BE LOE STORAGE FOR FACH ACRE DRAINED.	IDENTIFY AND DESCRIBE ALL SOURCES OF NON-STORMWATER DISCHARGE				HARGES	
	TOTAL AREA OF THE SITE TO BE DISTURBED:	ACRES	EQUIVALENT ALTERNATIVE) ARE RECON UNDER 10 ACRES.	MENDED FOR DRAINAGE AREAS	AN ALLOWED IN PART IV.A.3. OF THE PERMIT, FLOWS FROM FIRE FIGHTING ACTIVITIES DO NOT HAVE TO BE LISTED OR DESCRIBED.				
	EXISTING DATA DESCRIBING THE SOIL OR QUALITY OF ANY STORMWATER DISCHARGE FROM THE SITE:								
	ESTIMATE THE DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT:						ARLY IDENTIFY, FOR EA		
			DESCRIBE ALL PERMANENT STORMWAT BUT NOT LIMITED TO, DETENTION OR R SWALES THAT WILL BE INSTALLED DURI	ETENTION SYSTEMS OR VEGETATED	"I CERTIFY U WITH, THE PERMIT FOR	T EACH MEAS IN THE SWPI JNDER PENA TERMS AND R STORMWA	RACTOR(S) OR SUBCON SURE. ALL CONTRACTO PP MUST SIGN THE FOI LTY OF LAW THAT I UN CONDITIONS OF THE S TER DISCHARGE FROM	OR(S) AND SUBCONTRA LLOWING CERTIFICATI IDERSTAND, AND SHA TATE OF FLORIDA GEN I LARGE AND SMALL	ACTOR(S ION: ALL COM NERIC
	LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND IDENTIFY THE RECEIVING WATER OR MS4 FOR EACH DISCHARGE POINT:				PLAN PREPA	ARED THERE			
					NAME	TITLE	COMPANY NAME, AD AND TELEPHONE NU		DATE
									+
			DESCRIBE IN DETAIL CONTROLS FOR THI WASTE DISPOSAL, THIS MAY INCLUDE CONSTRUCTION DEBRIS, CHEMICALS,	E FOLLOWING POTENTIAL POLLUTANTS					
			LITTER, AND SANITARY WASTES:						
									_
									$\vdash$
									+-
	1	1	1	1			I .		

#### Stormwater Pollution Prevention Plan Inspection Report Form

#### rr at least once a week and within 24 hours of the end of a storm event that is 0.50 inches

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective .	Action / Other Remarks
	_					
	-					
	$\dashv$					
	_					
G = Good		= Marginal, needs	maintenance or re	placement soon	P = Poor, nee	eds immediate maintenance or replacement
G = Good C = Needs Control Type Codes	to be cleaned O	= Other		*		
G = Good C = Needs : Control Type Codes 1. Silt Fence	to be cleaned O	Other drain inlet protection	on 15	placement soon  P. Reinforced soil retain  On Gabion		28. Tree protection
G = Good C = Needs : Control Type Codes 1. Silt Fence 2. Earth dikes	to be cleaned O  10. Storm 11. Veget	= Other	on 15	Reinforced soil retain		
G = Good C = Needs Control Type Codes 1. Silt Fence 2. Earth dikes 3. Structural diversi	to be cleaned O  10. Storm 11. Veget	Other  drain inlet protection ative buffer strip ative preservation a	on 19 20 rea 2	Reinforced soil retair     Gabion	ning system	28. Tree protection 29. Detention pond
G = Good C = Needs   Control Type Codes 1. Silt Fence 2. Earth dikes 3. Structural diversi 4. Swale	to be cleaned O  10. Storm 11. Veget ion 12. Veget 13. Reten	Other  drain inlet protection ative buffer strip ative preservation a	on 15 20 rea 2 22	Reinforced soil retail     Gabion     Sediment Basin	ning system	28. Tree protection 29. Detention pond 30. Retention pond
G = Good C = Needs Control Type Codes 1. Silt Fence 2. Earth dikes 3. Structural diversi 4. Swale 5. Sediment Trap	to be cleaned O  10. Storm 11. Veget ion 12. Veget 13. Reten	Other drain inlet protection ative buffer strip ative preservation a tion Pond ruction entrance sta	on 19 20 rea 2 20 bilization 2	Reinforced soil retail     Gabion     Sediment Basin     Temporary seed / soil	ning system	28. Tree protection 29. Detention pond 30. Retention pond 31. Waste disposal / housekeeping
G = Good C = Needs : Control Type Codes 1. Silt Fence 2. Earth dikes 3. Structural diversi 4. Swale 5. Sediment Trap 6. Check dam	10. Storm 11. Veget ion 12. Veget 13. Reten 14. Const	Other drain inlet protection ative buffer strip ative preservation a tion Pond ruction entrance sta	on 19 20 rea 22 bilization 22 24	D. Reinforced soil retain D. Gabion D. Sediment Basin D. Temporary seed / soil D. Permanent see	ning system	28. Tree protection 29. Detention pond 30. Retention pond 31. Waste disposal / housekeeping 32. Dam
C = Needs   Control Type Codes	to be cleaned O  10. Storm 11. Veget 12. Veget 13. Reten 14. Const 15. Perim 16. Curb	Other  drain inlet protection attive buffer strip attive preservation attion Pond ruction entrance stateter ditch	on 18 20 rea 2 22 bilization 2 22 22	D. Reinforced soil retail D. Gabion D. Sediment Basin D. Temporary seed / sool Dermanent seed / sool Mulch	ning system	28. Tree protection 29. Detention pond 30. Retention pond 31. Waste disposal / housekeeping 32. Dam 33. Sand Bag

Name
Qualification
Date
The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

\*\*\*\*\*\*\*

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority)	Date

₫	90% DESIGN SUBMITTAL	11/8/19	
∢	90% DESIGN SUBMITTAL	6/13/19	
	60% DESIGN SUBMITTAL	2/1/19	
	30% DESIGN SUBMITTAL	12/28/18	
SYM	SYM DESCRIPTION	DATE	APPR

夏	M	L+H	

Ph 904.825.6747 www.halback.cc LC0000391

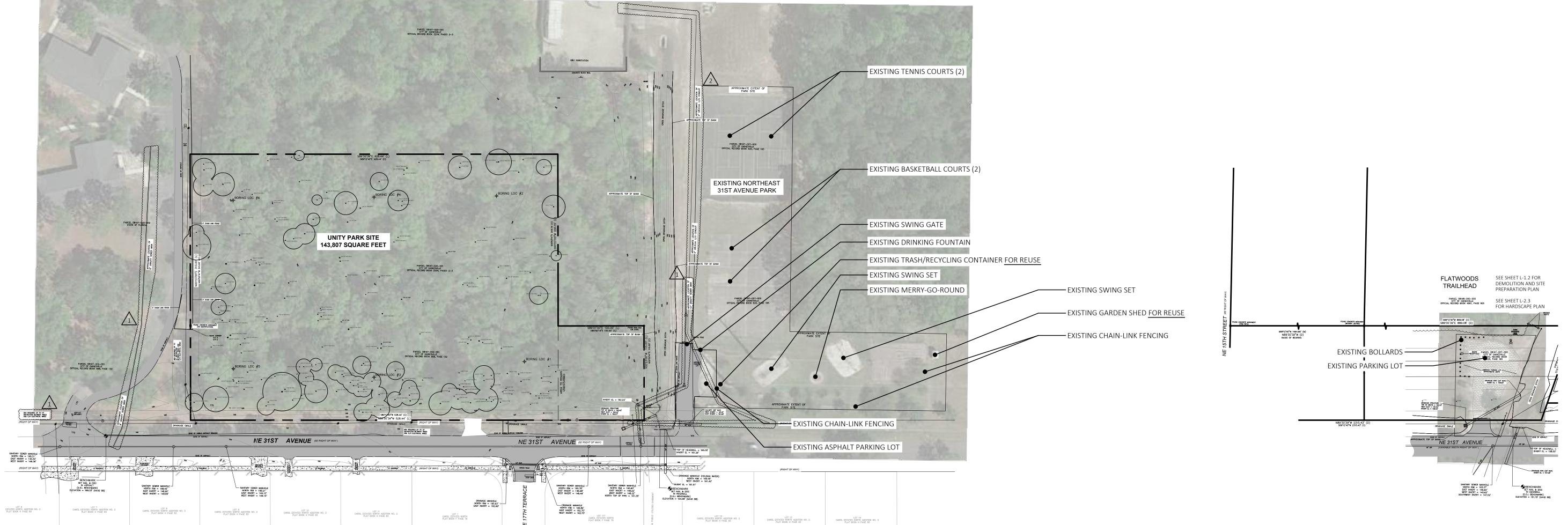
STORMWATER POLLUTION PREVENTION PLAN

1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 32627 UNITY PARK + FLATWOODS TRAILHEAD

SIZE: ANSI D
PRIME PROJECT NO.: 18.39.0

DRAWING NO.: L-0.7

TEMPLATE AND REPORT DERIVED FROM: https://floridadep.gov/sites/default/files/ConstructionSWPPP.pdf



NOUTY PARK + FLATWOODS TRAILING and a second and a second

hown using a digital signature. Irinted copies of this document are not conside

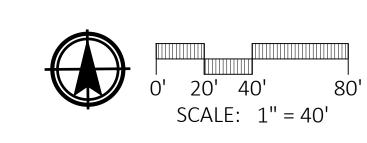
Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084

Ph 904.825.6747 www.halback.com LC0000391

PROJECT MANAGER: JM

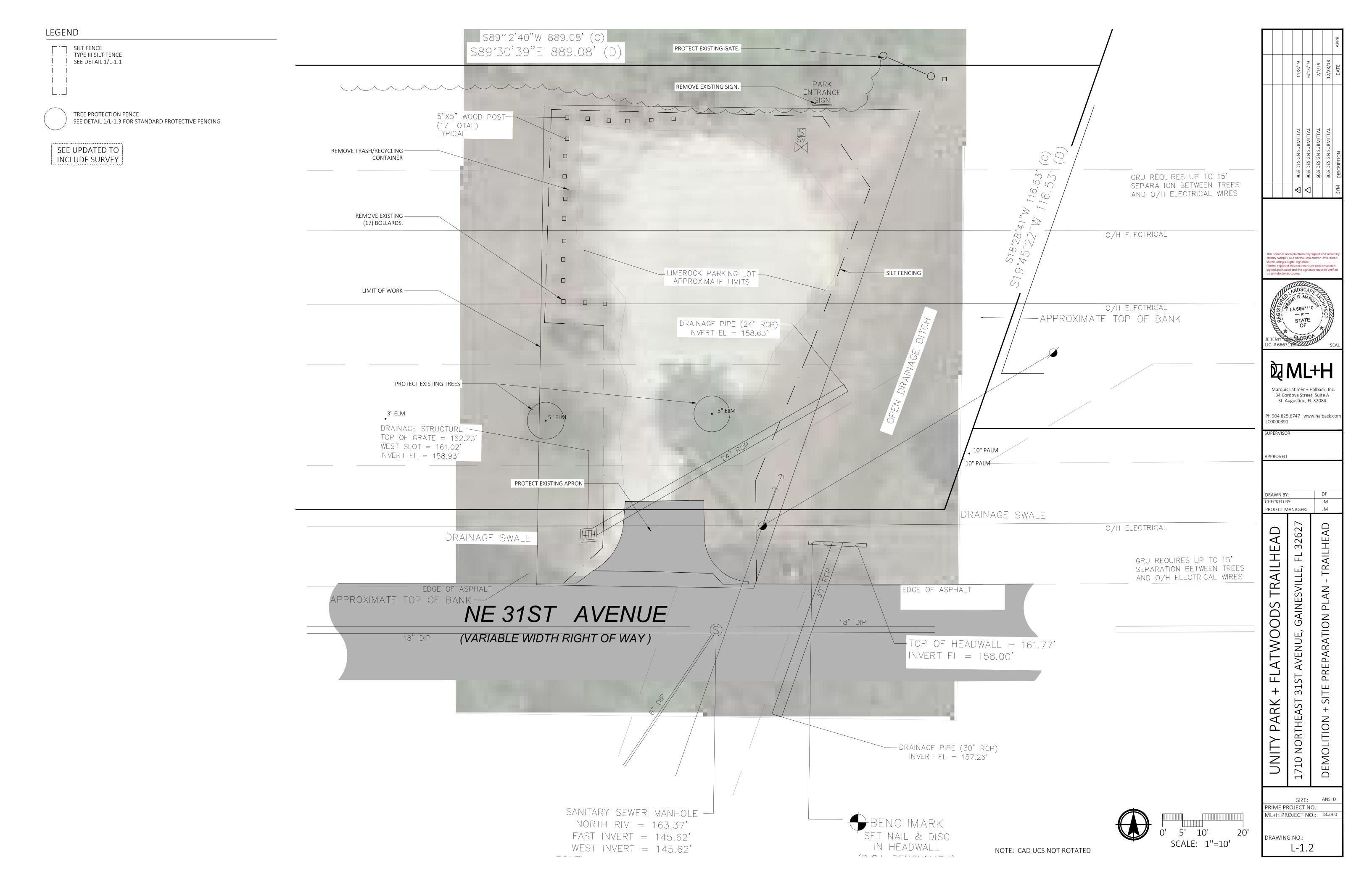
NOTE: CAD UCS ROTATED 0.7890-DEGREES CC TO MAKE SOUTHERN PROPERTY LINE LEVEL





Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084 Ph 904.825.6747 www.halback.cor LC0000391 PPROVED DRAWN BY: PROJECT MANAGER: JM TRAILHEAD PARK PLAN PREPARATION TWOODS ш SIT PARK DEMOLITION UNITY 10 SIZE: PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0 DRAWING NO.:

L-1.1



#### TREE CALCULATIONS

#### **EXISTING TREES**

- 1. Site contains 246 trees of greater than or equal to 8" caliper inches; site contains a total of 2,788 caliper inches.
- 2. Site contains 185 regulated trees with a total of 2,505 caliper inches.
- 3. Site contains 3 heritage trees (which are also high quality heritage/shade trees) with 62 caliper inches
- 4. Site contains 82 trees show signs of decay or are hollow, unsafe, leaning, and/or should be removed per consultant site visit on Monday, 7 January 2019 (Fremont Latimer, ISA Certified Arborist FL5480A).

#### TREES FOR REMOVAL

- 5. Current removal plan includes 144 trees of which:
- 5.3. 11 are unregulated trees
- 5.5. 25 are Regulated and High Quality Trees
- 5.6. 108 are only Regulated Trees
- 5.7. Mitigation requires planting a minimum 266 Shade Trees of High Quality species (266 = 2 x (25 + 108)).
- 6. Current removal plan includes 1 Heritage Tree with 22 caliper inches, and it is a High Quality Heritage/Shade tree; therefore:
- 6.1. Trunk Area:  $3.14 \times (\frac{1}{2} \times 22)^2 = 379.94 \text{ sq. in.}$
- 6.2. Square Inch Value: 379.94 sq. in. x \$40.00 = \$15,197.60

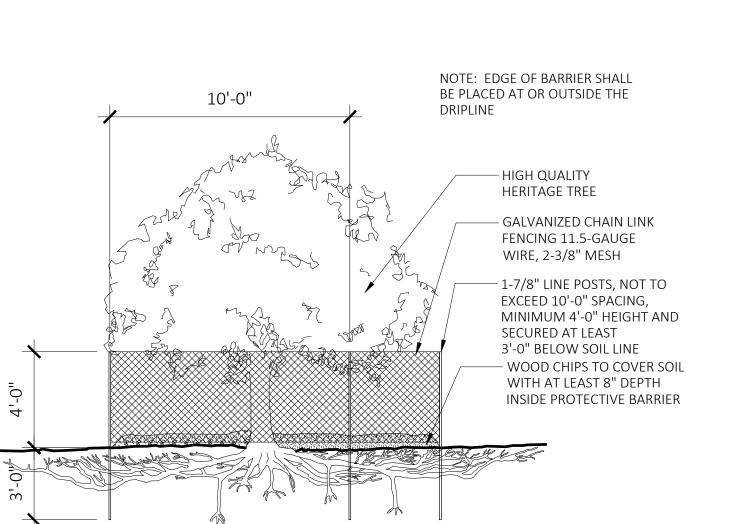
- 6.3. Tree Appraised Value: \$15,197.60 x 0.55 = \$8,358.68
- 4. Mitigation requires payment of \$8,358.68.

### TREES FOR PLANTING

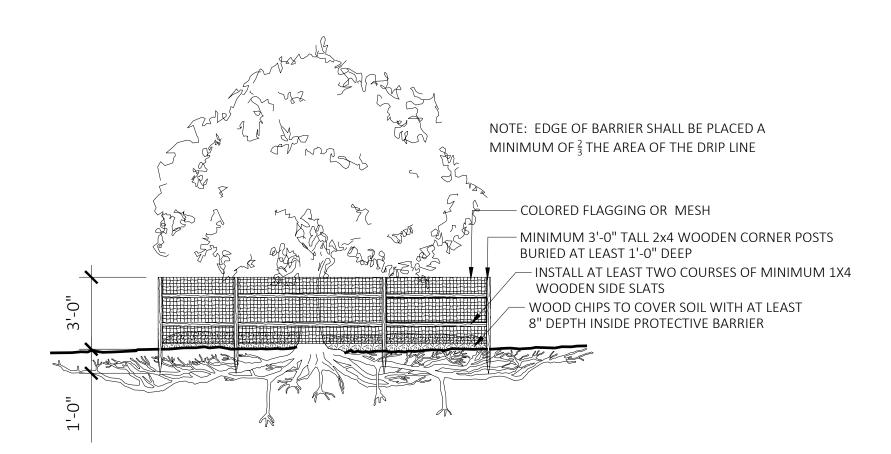
- 7. See Sheet L-3.1 LANDSCAPE PLAN
- 7.1. Plan requires installation of 105 trees.7.2. Deficit of 161 trees (161 = 266 105)
- 3. Mitigation requires payment of \$100 per deficit tree.
- 7.4. Mitigation requires payment of \$16,100.00.

#### TOTAL MITIGATION PAYMENT

8. Total payment is \$24,458.68 (24,458.68 = 8,358.68 + 16,100.00)









1 5 6 7 9 10 11 13 14 14 0)	1   5   6	Common Name  Laurel Oak (Q. laurifolia)	Caliper (in.)	Native			_			Unsafe (U) / Leaning (L) / Remove (R) / Multi-Plan					Regulated -	Heritage –	High Quality	High Quality		Unsafe (U) / Leaning (L) / Remove (R) / Multi-	Plan
11 14 15 16 18 21 22 25 26	5 l 6 l		10	Υ	Tree Y	Trees N	Trees N	<b>Heritage</b> N		trunk (M) Status DR Remove	96	Laurel Oak (Q. laurifolia)	Caliper (in.)	Y	Tree Y	Trees N	Trees N	Heritage N	Shade Trees N	DHUR	<b>Status</b> Remove
11 13 14 15 16 18 21 22 25 26		Long Leaf Pine (P. palustris)	14	Υ	Υ	N	Y	N	N	Remove	97	Laurel Oak (Q. laurifolia)	10	Υ	Υ	N	N	N	N	DL	Remove
11 13 14 15 16 18 21 22 25 26	7 l	Laurel Oak (Q. laurifolia)	10	Υ	Υ	N	N	N	N	Dead Remove	98	Laurel Oak (Q. laurifolia)	28	Υ	Υ	N	N	N	N	DHUR	Remove
11 13 14 15 16 18 21 22 25 26		Long Leaf Pine (P. palustris)	13	Υ	Υ	N	Υ	N	N	UR Remove	99	Long Leaf Pine (P. palustris)	22	Υ	Υ	Υ	Υ	Y	Y	High Quality Heritage/Shade Tree: M	Remove
11 13 14 15 16 18 21 22 25 26	9	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	Remove	100	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N		Remove
13 14 16 18 21 22 25 26		Long Leaf Pine (P. palustris)	12	Υ	Υ	N	Y	N		Remove; rubbing limb Remove	101	Long Leaf Pine (P. palustris)	16	Y	Y	N	Y	N	N		Remove
14 15 16 18 21 22 25 26		Laurel Oak (Q. laurifolia)	16	Y	Y	N	N	N		DH; poor; shows dieback Remove	102	Laurel Oak (Q. laurifolia)	9 11	Y	Y	N N	N N	N N	N N	DHUR	Remove
15 16 18 21 22 25 26		Laurel Oak (Q. laurifolia) Loblolly Pine (P. taeda)	22	Y Y	N Y	N N	N N	N N	N N	DHR Remove	103	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	9	Y	Y	N N	N	N N	N	DHOK	Remove
18 21 22 25 26		Laurel Oak (Q. laurifolia)	12	·	γ		N	N		Remove	105	Laurel Oak (Q. laurifolia)	14	Y	Y	N	N	N	N	DHUR	Remove
21 22 25 26		Laurel Oak (Q. laurifolia)	16	Υ	Υ	N	N	N	N	DH Remove	107	Laurel Oak (Q. laurifolia)	9	Υ	Υ	N	N	N	N		Remove
22 25 26	.8 I	Laurel Oak (Q. laurifolia)	9	Υ	Υ	N	N	N	N	H Remove	108	Laurel Oak (Q. laurifolia)	30	Υ	Υ	N	N	N	N	DLM	Remove
25	!1 l	Laurel Oak (Q. laurifolia)	15	Υ	Υ	N	N	N	N	DHUR Remove	109	Long Leaf Pine (P. palustris)	14	Υ	Υ	N	Υ	N	N		Remove
26		Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	DHUR Remove	110	Laurel Oak (Q. laurifolia)	14	Υ	Υ	N	N	N	N	Dead; leaning on tree	Remove
		Laurel Oak (Q. laurifolia)	16	Υ	Y	N	N	N	N	Remove	111	Laurel Oak (Q. laurifolia)	9	Y	Y	N	N	N	N	#112	Remove
2/		Laurel Oak (Q. laurifolia)	10	Y	Y	N	N	N	N	Remove	112	Laurel Oak (Q. laurifolia)	21 15	Y	Y	N N	N N	N N	N N	ULRM	Remove
28	_	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	15 12	Y	Υ	N N	N N	N N	N N	Remove Remove	115 116	Laurel Oak (Q. laurifolia)  Long Leaf Pine (P. palustris)	15	Y	Y	N N	Y	N	N		Remove
29		Water Oak (Q. nigra)	9	Y	Y	N	N	N	N	Remove	117	Laurel Oak (Q. laurifolia)	11	Y	Y	N	N	N	N		Remove
30		Long Leaf Pine (P. palustris)	15	Y	Y	N	Y	N	N	Remove	118	Laurel Oak (Q. laurifolia)	22	Y	Y	N	N	N		DHUR	Remove
31		Laurel Oak (Q. laurifolia)	14	Υ	Υ	N	N	N	N	DH Remove	119	Laurel Oak (Q. laurifolia)	8	Υ	Υ	N	N	N	N	L	Remove
32	32 I	Laurel Oak (Q. laurifolia)	10	Υ	Υ	N	N	N	N	Remove	120	Water Oak (Q. nigra)	9	Υ	Υ	N	N	N	N		Remove
37	37 I	Long Leaf Pine (P. palustris)	15	Υ	Υ	N	Υ	N	N	Remove	121	Laurel Oak (Q. laurifolia)	11	Υ	Υ	N	N	N	N	L	Remove
38		Laurel Oak (Q. laurifolia)	14	Y	Υ	N	N	N	N	D Remove	142	Laurel Oak (Q. laurifolia)	38	Y	Y	N	N	N	N	DM	Remove
	-	Laurel Oak (Q. laurifolia)	16	Υ	Υ	N	N	N	N	Remove	144	Laurel Oak (Q. laurifolia)	12	Y	Y	N	N	N	N	DLR	Remove
41		Laurel Oak (Q. laurifolia)	14	Υ	Y	N N	N	N	N	Remove	145	Laurel Oak (Q. laurifolia)	17 9	Y	Y	N N	N	N	N		Remove
42	-	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	14 20	Y	Y	N N	N N	N N	.,	D Remove	146	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	10	Y	Υ Υ	N N	N N	N N	N N	L	Remove
1 44	~~~~	Loblolly Pine (P. taeda)	20	v ,	N	N	N	N		D Remove	148	Laurel Oak (Q. laurifolia)	16	Y	Y	N	N	N	N		Remove
47		Laurel Oak (Q. laurifolia)	30	, Y	Y	N	N	N		DHM Remove	149	Long Leaf Pine (P. palustris)	18	Y	Y	N	Υ	N	N		Remove
48	-	Laurel Oak (Q. laurifolia)	9	Υ	Υ	N	N	N		LUR Remove	150	Long Leaf Pine (P. palustris)	15	Υ	Υ	N	Υ	N	N	D	Remove
49	19 I	Laurel Oak (Q. laurifolia)	10	Υ	Υ	N	N	N	N	Remove	151	Laurel Oak (Q. laurifolia)	12	Υ	Υ	N	N	N	N		Remove
50	iο 1	Long Leaf Pine (P. palustris)	15	Υ	Υ	N	Y	N	N	Remove	154	Laurel Oak (Q. laurifolia)	12	Υ	Υ	N	N	N	N	D	Remove
51	51 l	Laurel Oak (Q. laurifolia)	15	Υ	Υ	N	N	N	N	DHUR Remove	157	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	DM	Remove
52		Laurel Oak (Q. laurifolia)	14	Υ	Υ	N	N	N	N	DH Remove	158	Laurel Oak (Q. laurifolia)	9	Y	Y	N	N	N	N	DHR	Remove
54	-	Laurel Oak (Q. laurifolia)	19	Υ	Y	N	N	N	N	D Remove	159 160	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	13 9	Y	Y	N N	N N	N N	N N	DL	Remove
55		Loblolly Pine (P. taeda)  Laurel Oak (Q. laurifolia)	18 10	Y	N	N N	N N	N N	N N	DLU Remove	165	Laurel Oak (Q. laurifolia)	16	Y	Y	N N	N	N	N	I	Remove
57	-	Laurel Oak (Q. laurifolia)	10	Y	Y	N N	N	N		DLU Remove  Remove	180	Laurel Oak (Q. laurifolia)	16	Υ	Y	N	N	N	N	D	Remove
58	-	Laurel Oak (Q. laurifolia)	14	Y	Y	N	N	N	N	DH Remove	183	Laurel Oak (Q. laurifolia)	20	Υ	Υ	N	N	N	N	DHM	Remove
59	59 I	Laurel Oak (Q. laurifolia)	10	Υ	Υ	N	N	N	N	D Remove	184	Laurel Oak (Q. laurifolia)	9	Υ	Υ	N	N	N	N	Dead	Remove
60	60 I	Long Leaf Pine (P. palustris)	15	Υ	Υ	N	Y	N	N	Remove	187	Laurel Oak (Q. laurifolia)	11	Υ	Υ	N	N	N	N	DL	Remove
61		Laurel Oak (Q. laurifolia)	16	Υ	Υ	N	N	N	N	D Remove	189	Long Leaf Pine (P. palustris)	8	Y	Y	N	Y	N	N	_	Remove
62	-	Laurel Oak (Q. laurifolia)	10	Y	Y	N	N	N		DHR Remove	190	Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	9	Y	Y	N	N	N	N N	D	Remove
63	-	Laurel Oak (Q. laurifolia)	15	Y	Y	N N	N	N	.,	D Remove	191	Laurel Oak (Q. laurifolia)	12 10	Y	Υ Υ	N N	N N	N N	N N	DH	Remove
65		Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	18 13	Y	Y	N N	N N	N N	N	D Remove Remove	193	Water Oak (Q. nigra)	8	Υ Υ	Y	N	N	N	N	L	Remove
66		Water Oak (Q. nigra)	8	Y	Y	N N	N	N		D Remove	198	Camphora Tree (C. camphora)	8	N	N	N	N	N	N	Invasive species	Remove
67		Water Oak (Q. nigra)	9	Υ	Υ	N	N	N	N	Remove	200	Pine species	12	Υ	Υ	N	N	N	N	Dead; no top	Remove
69	59 I	Laurel Oak (Q. laurifolia)	15	Υ	Υ	N	N	N	N	D Remove	201	Long Leaf Pine (P. palustris)	11	Υ	Υ	N	Υ	N	N		Remove
71		Laurel Oak (Q. laurifolia)	8	Υ	Υ	N	N	N	N	D Remove	202	Long Leaf Pine (P. palustris)	11	Υ	Υ	N	Y	N	N	D	Remove
72		Long Leaf Pine (P. palustris)	19	Υ	Υ	N	Υ	N		DL Remove	203	Long Leaf Pine (P. palustris)	13	Υ	Y	N	Y	N	N	DILLE	Remove
74	-	Laurel Oak (Q. laurifolia)	10	Y .	Y	N	N	N	N	L Remove	204	Laurel Oak (Q. laurifolia)	11 g	Y	Y	N N	N V	N N	N N	DHUR	Remove
		Laurel Oak (Q. laurifolia)	12	Y	Y	N	N	N		DHR Remove	205	Long Leaf Pine (P. palustris)  Loblolly Pine (P. taeda)	8 15	Y	Y N	N N	Y N	N N	N N	U	Remove
76		Laurel Oak (Q. laurifolia)  Laurel Oak (Q. laurifolia)	30 13	Y	Y	N N	N N	N N		M Remove D Remove	206	Long Leaf Pine (P. palustris)	12	Y	Y	N N	Y	N	N N		Remove
78	-	Laurei Oak (Q. laurifolia)	8	Y	Y	N N	N N	N		DL Remove	208	Laurel Oak (Q. laurifolia)	14	Y	Y	N	N	N	N		Remove
79		Laurel Oak (Q. laurifolia)	10	Y	Y	N	N	N		D Remove	209	Loblolly Pine (P. taeda)	17	Υ	N	N	N	N	N		Remove
80	-	Laurel Oak (Q. laurifolia)	14	Y	Y	N	N	N		DHR Remove	210	Loblolly Pine (P. taeda)	14	Y	N	N	N	N	N		Remove
81		Long Leaf Pine (P. palustris)	18	Υ	Υ	N	Υ	N	N	Remove	211	Loblolly Pine (P. taeda)	10	Y	N	N	N	N	N		Remove
82	32 l	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	D Remove	212	Laurel Oak (Q. laurifolia)	12	Υ	Υ	N	N	N	N	D	Remove
83		Laurel Oak (Q. laurifolia)	18	Υ	Υ	N	N	N	N	M Remove	213	Laurel Oak (Q. laurifolia)	17	Y	Y	N	N	N	N		Remove
84		Long Leaf Pine (P. palustris)	13	Υ	Υ	N	Y	N	N	Remove	214	Loblolly Pine (P. taeda)	11	Y	N	N	N	N N	N N		Remove
85		Laurel Oak (Q. laurifolia)	11	Y	Y	N	N	N		DHR Remove	215	Loblolly Pine (P. taeda)  Loblolly Pine (P. taeda)	15 13	Υ /	N N	N N	N N	N N	N N		Remove
86		Laurel Oak (Q. laurifolia)	12	Y	Y	N N	N Y	N N		DHL Remove	216	Loblolly Pine (P. taeda)	13	Y	N	N N	N N	N N	N N		Remove
87		Long Leaf Pine (P. palustris)  Laurel Oak (Q. laurifolia)	13 9	Y	Y	N N	Y N	N N	N N	L Remove	218	Laurel Oak (Q. laurifolia)	14	Y	Y	N	N	N	N		Remove
89		Laurel Oak (Q. laurifolia)	21	Y	Y	N N	N	N	N	Remove	221	Loblolly Pine (P. taeda)	15	Y	N	N	N	N	N		Remove
90	-	Long Leaf Pine (P. palustris)	18	Y	Y	N	Y	N	N	Remove	242	Live Oak (Q. virginiana)	8	Υ	Υ	N	Υ	N	N	D	Remove
91	-+	Laurel Oak (Q. laurifolia)	15	Υ	Υ	N	N	N	N	Remove	243	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	DH	Remove
92	)2 l	Laurel Oak (Q. laurifolia)	10	Y	Υ	N	N	N	N	D Remove	245	Laurel Oak (Q. laurifolia)	8	Υ	Υ	N	N	N		DH	Remove
93	)3 I	Laurel Oak (Q. laurifolia)	8	Υ	Υ	N	N	N	N	D Remove	246	Laurel Oak (Q. laurifolia)	13	Υ	Υ	N	N	N	N	DH	Remove

#### ARBORIST'S NOTES

- 1. TREE PROTECTION MEASURES, INCLUDING TREE BARRICADES AND TEMPORARY IRRIGATION, SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF SITE WORK AND KEPT IN GOOD ORDER FOR THE DURATION OF CONSTRUCTION.
- 2. ALL EQUIPMENT, CHEMICALS AND MATERIAL STORAGE SHALL BE KEPT OUTSIDE OF DESIGNATED TREE PROTECTIONS AREAS. NO SIGNS, PERMITS OR ATTACHMENTS WILL BE ALLOWED ON PROTECTED TREES.
- 3. CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO ROOT SYSTEMS OF PRESERVED TREES. IF ROOTS GREATER THAN TWO INCHES IN DIAMETER REQUIRE REMOVAL, THEY SHALL BE EXPOSED BY HAND AND CLEANLY SEVERED BY CHAINSAW.
- 4. IF PRUNING OF TREES IS REQUIRED, COMPLY WITH ANSI #Z133.1 STANDARDS AND SEC. 30-8.9 OF THE CITY OF GAINESVILLE'S LAND DEVELOPMENT CODE, AND OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OR CITY ARBORIST PRIOR TO BEGINNING WORK.

	%06 <b>\</b>	<b>₩</b> 60%	%09	30%	SYM DESCRIPTION
	90% DESIGN SUBMITTAL	90% DESIGN SUBMITTAL	60% DESIGN SUBMITTAL	30% DESIGN SUBMITTAL	RIPTION
	11/8/19	6/13/19	2/1/19	12/28/18	DATE
					APPR

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Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084

Ph 904.825.6747 www.halback.co LC0000391

SUPERVISOR

APPROVED

DRAWN BY: DF
CHECKED BY: JM
PROJECT MANAGER: JM

UNITY PARK + FLATWOODS TRAILHEAD
710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 3262
TREE PROTECTION DETAILS

SIZE: ANSI D
PRIME PROJECT NO.:
ML+H PROJECT NO.: 18.39.0

DRAWING NO.: L-1.3

#### REFERENCE NOTES SCHEDULE UNITY PARK

SYMBOL	DESCRIPTION	QTY	DETAIL
1	Natural Grey Concrete with Broom Finish	22,792 sf	PER CIVIL
2	Asphalt Paving	9,376 sf	PER CIVIL
3	Concrete Paving with Painted Finish	1,257 sf	PER CIVIL
5	Pine Straw Mulch spread to 3" depth as measured at substrate and at final walk thru	1,179 sf	
6	Engineered Wood Fiber for Playgrounds, depth per playground manufacturer's specification	5,014 sf	
7	Dog Waste Station	1	6/L-2.7
8	Trash Receptical on Concrete Pad - Gainesville City Standard (Note: 1 reused from existing NE 31st AVE Park)	3	1/L-2.7
9	Drinking Fountain	1	5/L-2.7
10	Bicycle Rack	8	4/L-2.7
11	ADA-Accessible Grill		2/L-2.6
13	72" Bench with ADA space (Note: half of benches shall have blue seat/back color, half of benches shall have green seat/back color.)	8	7/L-2.7
14	Picnic Table (Minimum 1 ADA Accessible Table) - City of Gainesville Standard (Note: ADA and two standard tables shall have green seat/table and three standard tables to have blue seat/table.)	6	2/L-2.7
20	Chain-link Fence, Black Vinyl-coating, 4` Height of Fence Fabric	427 lf	
21	Picket Fence and Gate - Gainesville City Standard		6/L-2.4
23	Kiosk - Gainesville City Standard	1	1/L-2.6
24	24` x 20` Gable-roofed Shelter		3/L-2.7
25	Parking Lot Area Light	3	PER ELECTICAL
26	Drop Toss (Alternative Basketball Goal) (Note: Top of basket 10`-0" above grade)		9/L-2.6
27	Action Fit - Push Up		1/L-2.8
28	Action Fit - Chin Up		2/L-2.8
29	Action Fit - Bench Dip		3/L-2.8
30	Action Fit - Balance Beam		4/L-2.8
31	Action Fit - Body Curl Station		5/L-2.8
32	Action Fit - Parallel Bar Station		6/L-2.8
39	Berliner O`Tannebaum Merry-Go-Round		8/L-2.6
40	Berliner Double Cloud 9 Disc Swingset		4/L-2.6
41	Berliner Cosmo.10 Playground (5-12) (Note: modified to accomdate traditional slide)		6/L-2.6
42	Berliner SpaceballS Playground (2-5)		5/L-2.6
43	Berliner Swingo.2.4 Swingset		7/L-2.6

 $^{>}$  GAINESVILLE PARKS, RECREATION, AND CULTURAL AFFAIRS DEPARTMENT, WILD SPACES PUBLIC PLACES, SPECIFIED TEN (10) PARKING  $^{<}$ > SPACES FOR UNITY PARK.

PER 30-7.5. REQUIRED NUMBER OF PARKING SPACES.

, VEHICLES. BASKETBALL COURTS REQUIRE FIVE (5) VEHICULAR PARKING SPACES PER COURT FOR A TOTAL OF TEN (10) SPACES. PICNIC` TABLES REQUIRE ONE (1) PARKING SPACE FOR EVERY THREE (3) TABLES OVER FIVE (5) TABLES FOR A TOTAL OF TWO (2) SPACES.

CURRENT PLAN SHOWS TEN (10) VEHICLE PARKING SPACES, RESULTING IN A DEFICIENCY OF TWO (2) SPACES.

BICYCLES. FOUR (4) BICYCLE SPACES REQUIRED PER FIRST 10 ACRES OF PARK. IN ADDITION TO THE MINIMUM NUMBER OF  $^{>}$  REQUIRED BICYCLE PARKING FACILITIES, A SUBSTITUTION FOR UP TO 85% OF VEHICLE PARKING SPACES ON A FOUR-FOR-ONE (4:1)

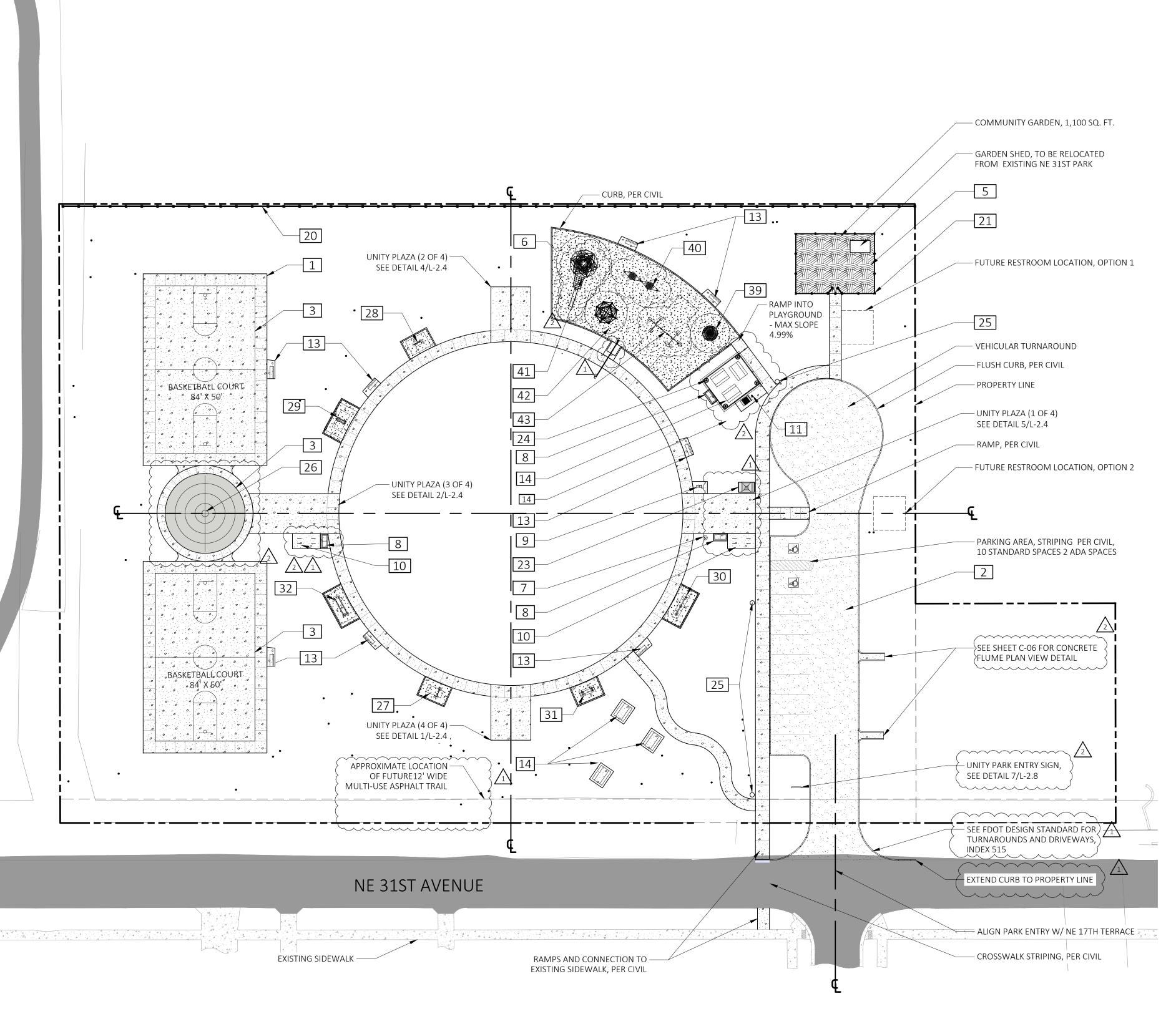
> BASIS REQUIRING A MINIMUM OF EIGHT (8) BICYCLE SPACES TO COMPENSATE FOR THE TWO (2) VEHICLE PARKING DEFICIENCY,  $\rangle$  RESULTING IN A MINIMUM OF TWELVE (12) BICYCLE SPACES.

BICYCLE PARKING SPACING BASED ON TWO SPACES PER ONE BICYCLE RACK.

, CONTRACTOR SHALL INSTALL EIGHT (8) BICYCLE RACKS PROVIDING A TOTAL OF SIXTEEN (16) BICYCLE SPACES.

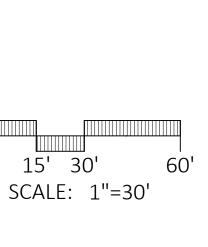
\_\_\_\_\_ QUANTITIES ARE NOTED FOR BIDDING ASSISTANCE. THEY ARE AUTOMATICALLY GENERATED BY LAND F/X SOFTWARE, BUT THE MEASUREMENT ON THE PRINTED PLAN SHALL PREVAIL IF CONFLICT

PRODUCTS LISTED ARE BASIS OF DESIGN. EQUIVALENT PRODUCTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PER CITY PURCHASING GUIDELINES.





NOTE: CAD UCS ROTATED 0.7890-DEGREES CC TO MAKE SOUTHERN PROPERTY LINE LEVEL



remy Marquis, RLA on the Date and/or Time Stamp

4 LA 6667110

Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A

St. Augustine, FL 32084

Ph 904.825.6747 www.halback.co

PROJECT MANAGER: JM

PARK

PLAN

MATERIALS

LC0000391

APPROVED

DRAWN BY:

CHECKED BY:

TRAILHEAD

**ATWOODS** 

H

PARK

UNITY

10

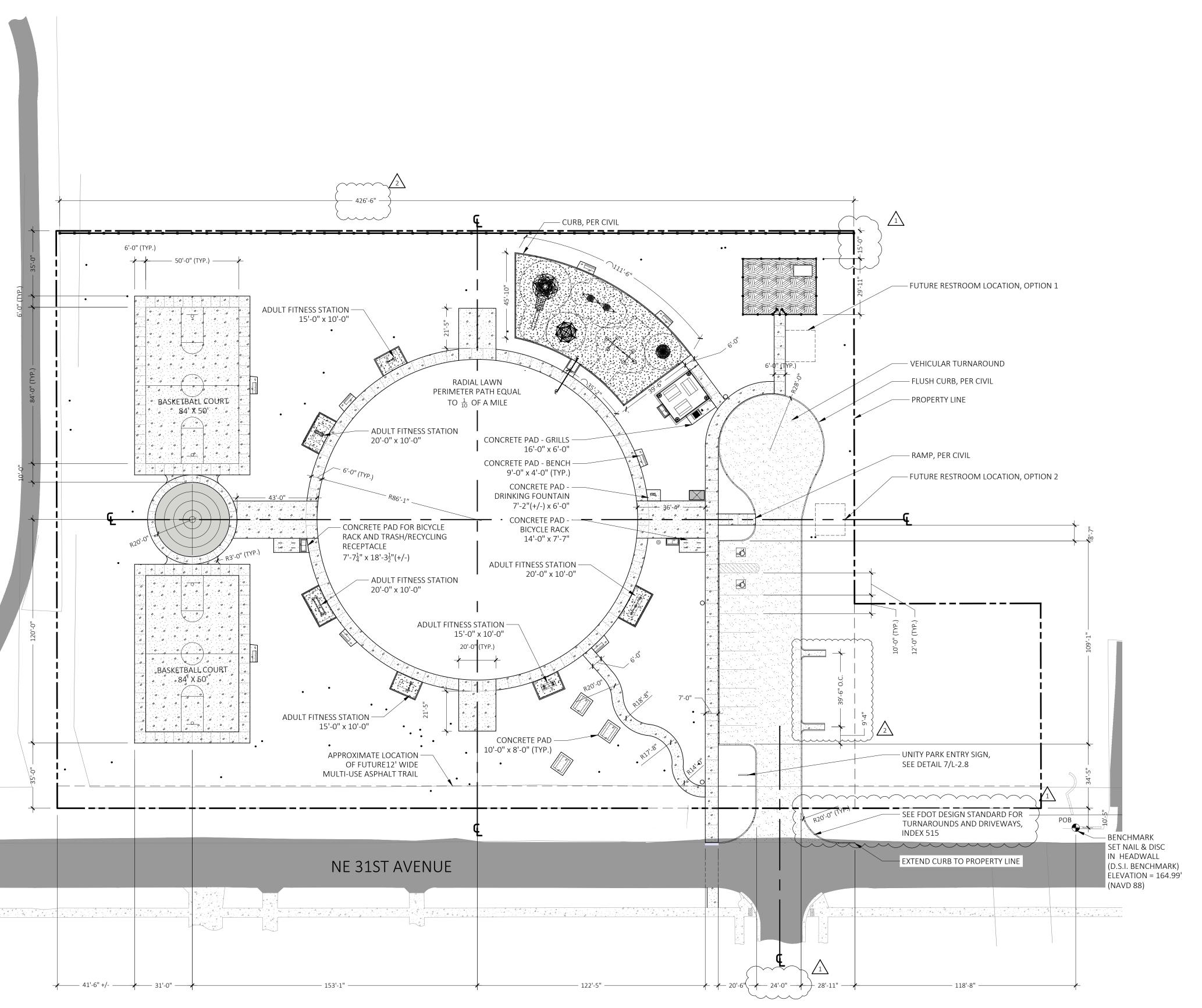
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ML+H PROJECT NO.: 18.39.0

L-2.1

PRIME PROJECT NO.:

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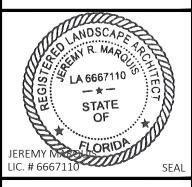


' 15' 30' SCALE: 1"=30'

NOTE: CAD UCS ROTATED 0.7890-DEGREES CC

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APPROVED

DRAWN BY: CHECKED BY:

PROJECT MANAGER: JM

TRAILHEAD PARK **ATWOODS** LAYOUT PLAN FL **UNITY PARK** 

SIZE: ANSI D PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

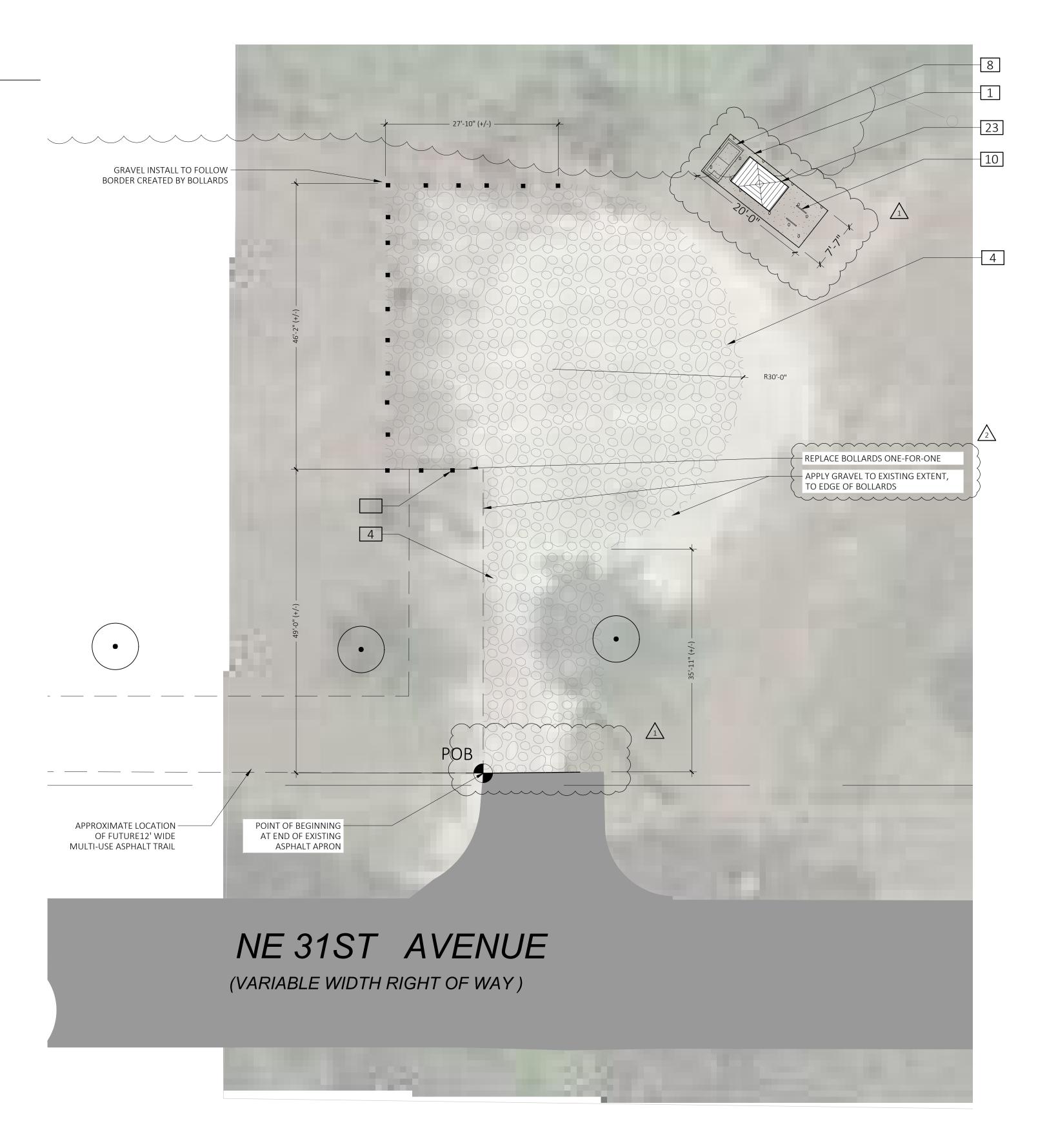
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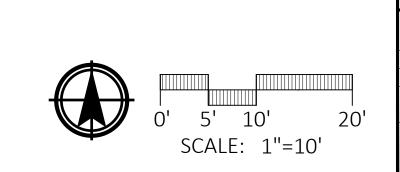
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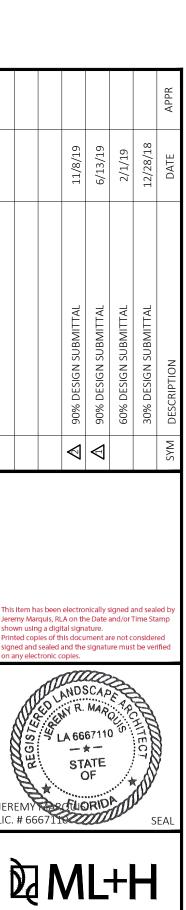
L-2.2

# REFERENCE NOTES SCHEDULE TRAILHEAD

SYMBOL	DESCRIPTION	QTY	DETAIL
1	Natural Grey Concrete with Broom Finish	152 sf	
4	#57 Stone Aggregate Driveway and Parking Lot	3,546 sf	
8	Trash Receptical on Concrete Pad - Gainesville City Standard (Note: 1 reused from existing NE 31st AVE Park)	1	1/L-2.7
10	Bicycle Rack	2	4/L-2.7
22	6X6 Wood Bollard (Note: Replace one-for-one with existing)	17	8/L-2.8
23	Kiosk - Gainesville City Standard	1	1/L-2.6









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CHECKED B	SY:	J١
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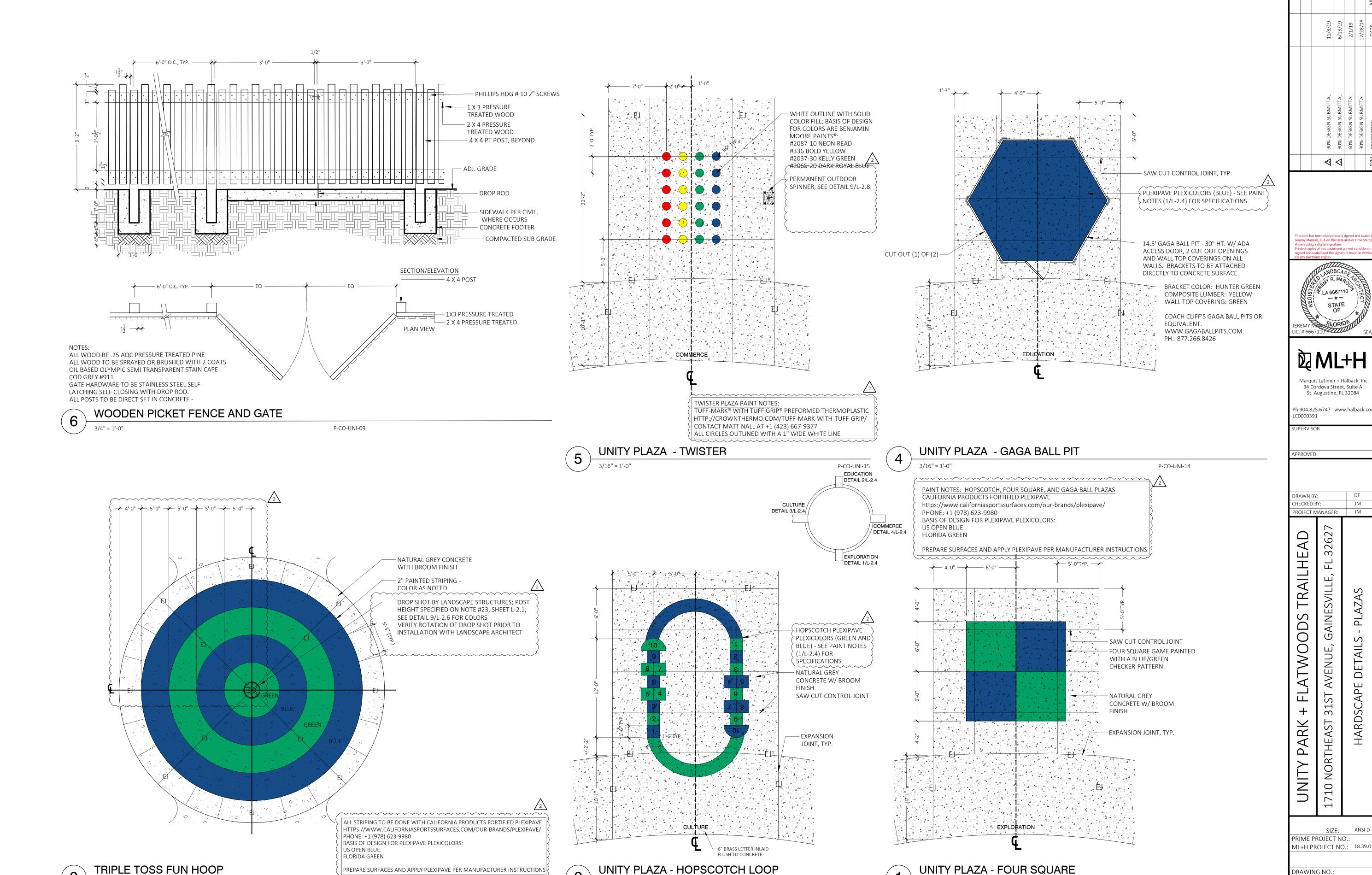
APPROVED

+ FLATWOODS TRAILHEAD
31ST AVENUE, GAINESVILLE, FL 3262

UNITY PARK +
1710 NORTHEAST 31
MATERIALS +

SIZE: ANSI D
PRIME PROJECT NO.: 18.39.0

DRAWING NO.: L-2.3

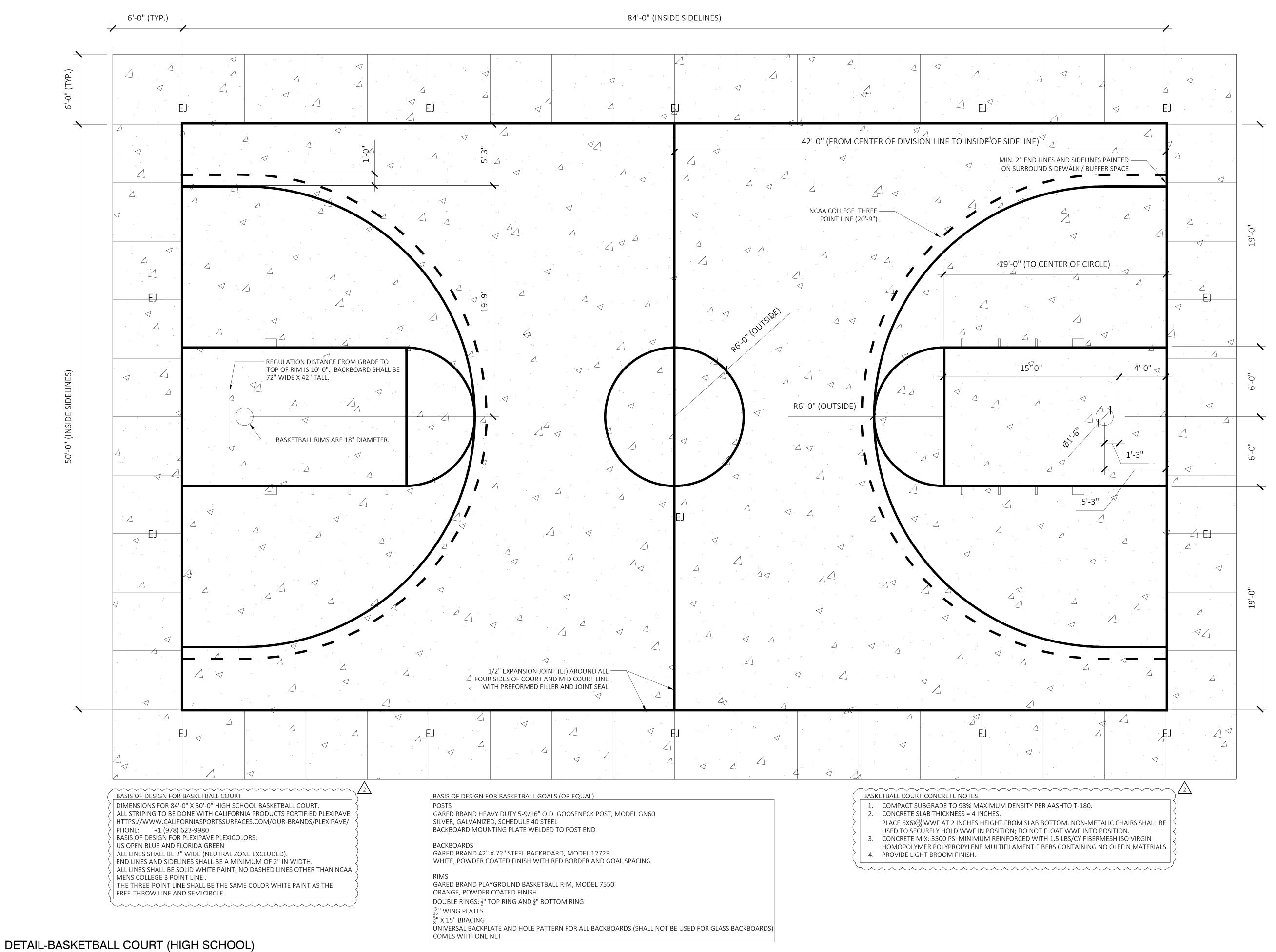


P-CO-RES-65

P-CO-RES-66

L-2.4

P-CO-RES-64



P-CO-UNI-01

ML+H PROJECT NO.: 18.39.0

DRAWING NO.:

ARK

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UNITY

SIZE: ANSI D

PRIME PROJECT NO.:

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St. Augustine, FL 32084

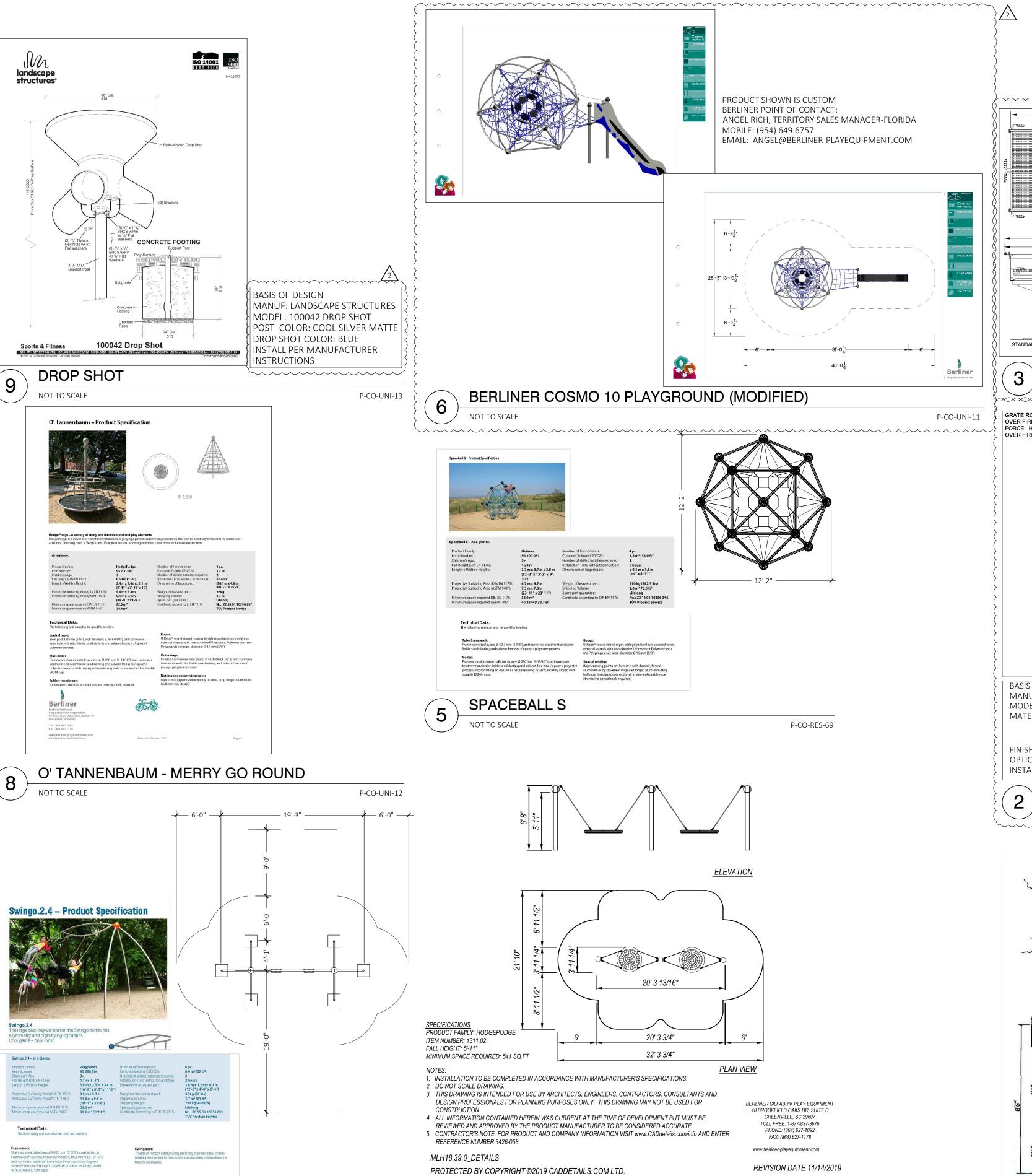
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PROJECT MANAGER: JM

LC0000391

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DRAWN BY:



DOUBLE CLOUD 9

NOT TO SCALE

P-CO-RES-68

SWINGO.2.4

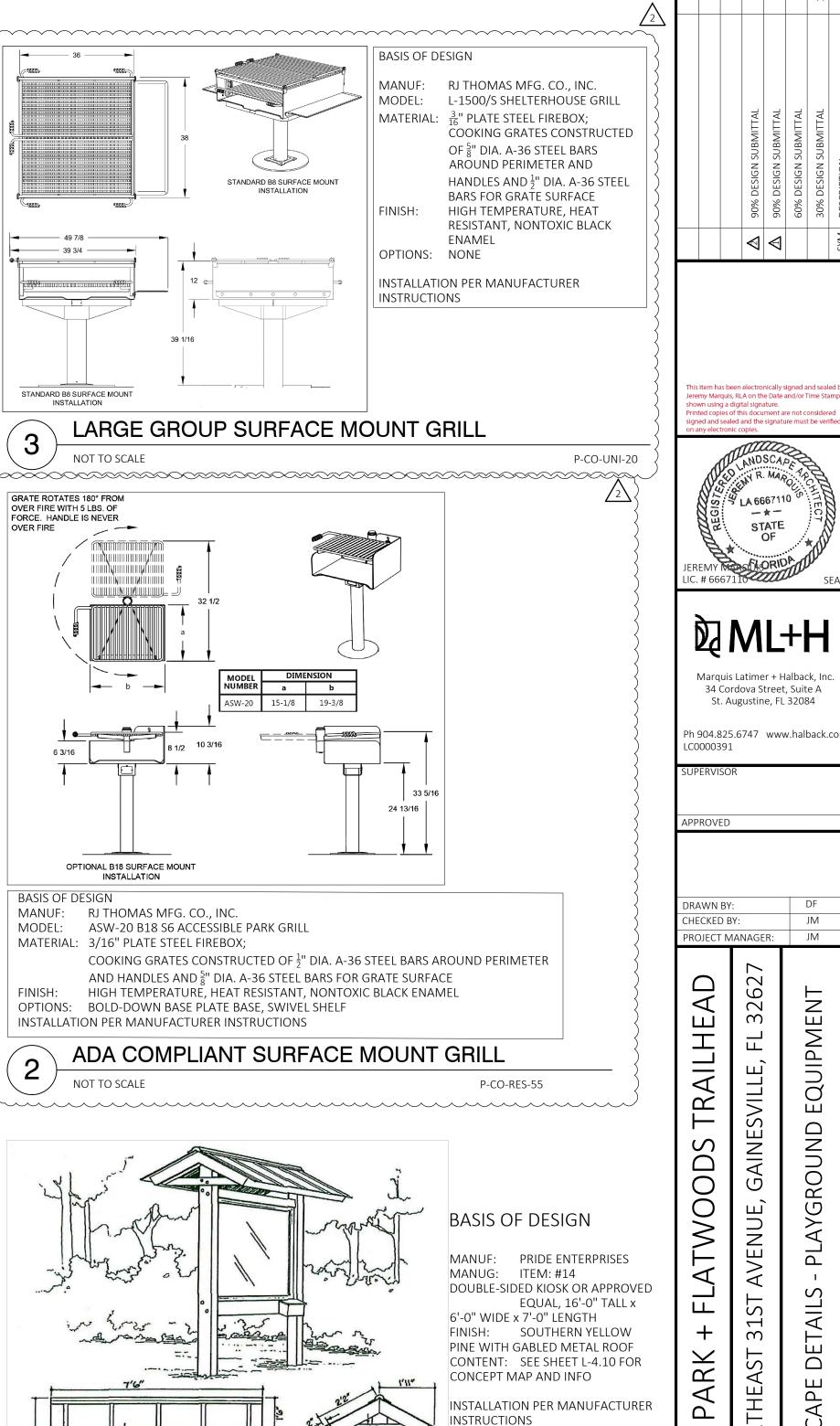
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P-CO-RES-61

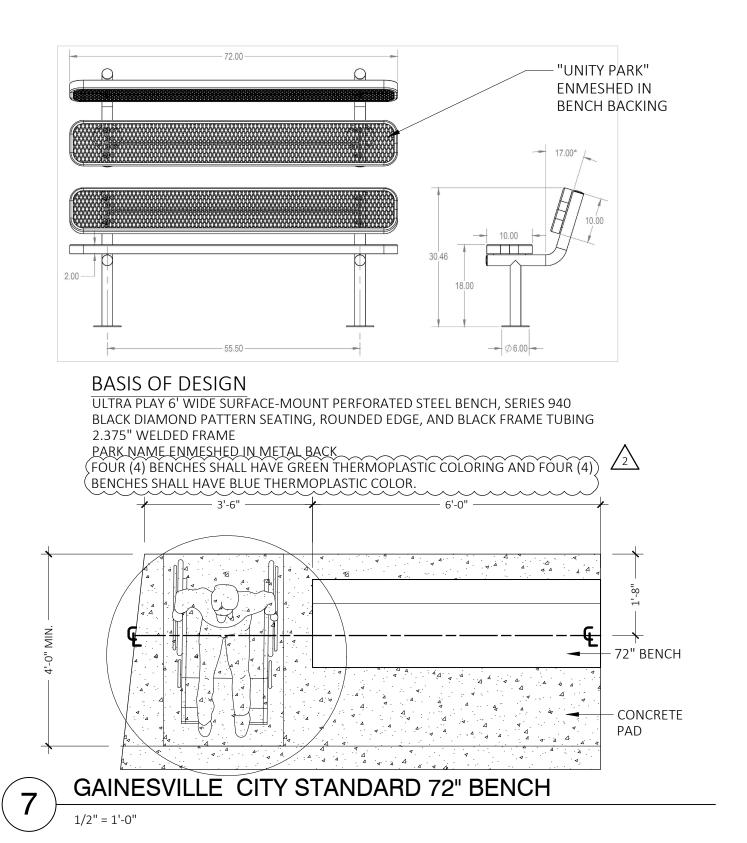
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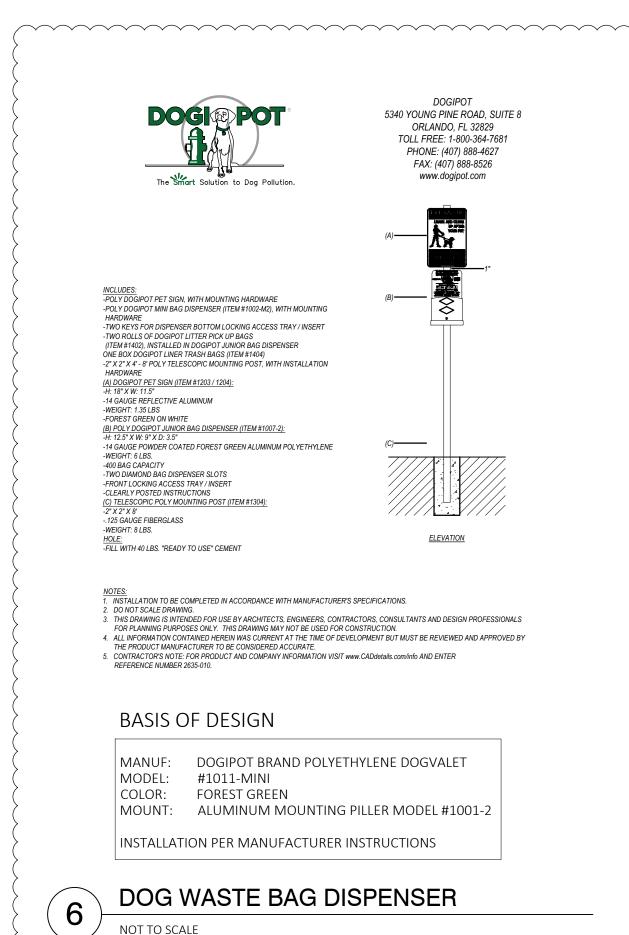
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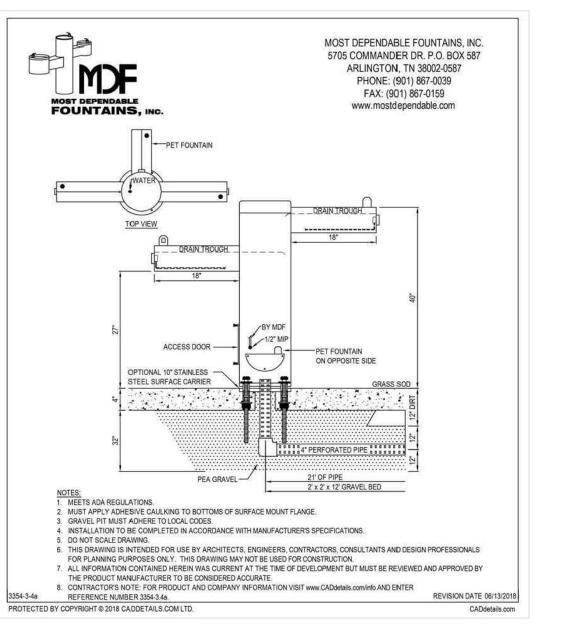


EQUIPMENT **TRAILHE** PLAYGROUND DE HARDSCAPE Δ UNITY 10 SIZE: PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0 DRAWING NO.: L-2.6

P-CO-RES-43







#### BASIS OF DESIGN

NOT TO SCALE

MANUF: MDF, INC. 840 SMSS-01 (TROUGH STYLE) DRINKING FOUNTAIN WITH PET OPTION FINISH: STAINLESS STEEL OPTION: LOCKABLE HOSE BIBB INSTALLATION PER MANUFACTURER INSTRUCTIONS

SEE CIVIL UTILITY PLAN FOR WATER LINE CONNECTION

# DETAIL-DRINKING FOUNTAIN, ADA ACCESSABLE

P-CO-RES-36

NOTES:

UNITS ARE DOUBLE SIDED WITH ACCESS ON EACH SIDE.

ALL FASTENING HARDWARE IS STAINLESS STEEL

UNITS CONSTRUCTED OF RECYCLED HDPE MATERIAL (GREEN PANELS/BLACK FRAME) WITH VIRGIN HDPE MATERIAL (BLACK) FOR THE ROOF.

**DETAIL-BICYCLE RACK** NOT TO SCALE

BASIS OF DESIGN

MODEL:

FINISH:

MANUF: LANDSCAPE FORMS

STEEL

DESIGN MANUAL APPENDIX B-9.

RING BIKE RACK OR APPROVED EQUAL

ELECTROPOLISHED STAINLESS

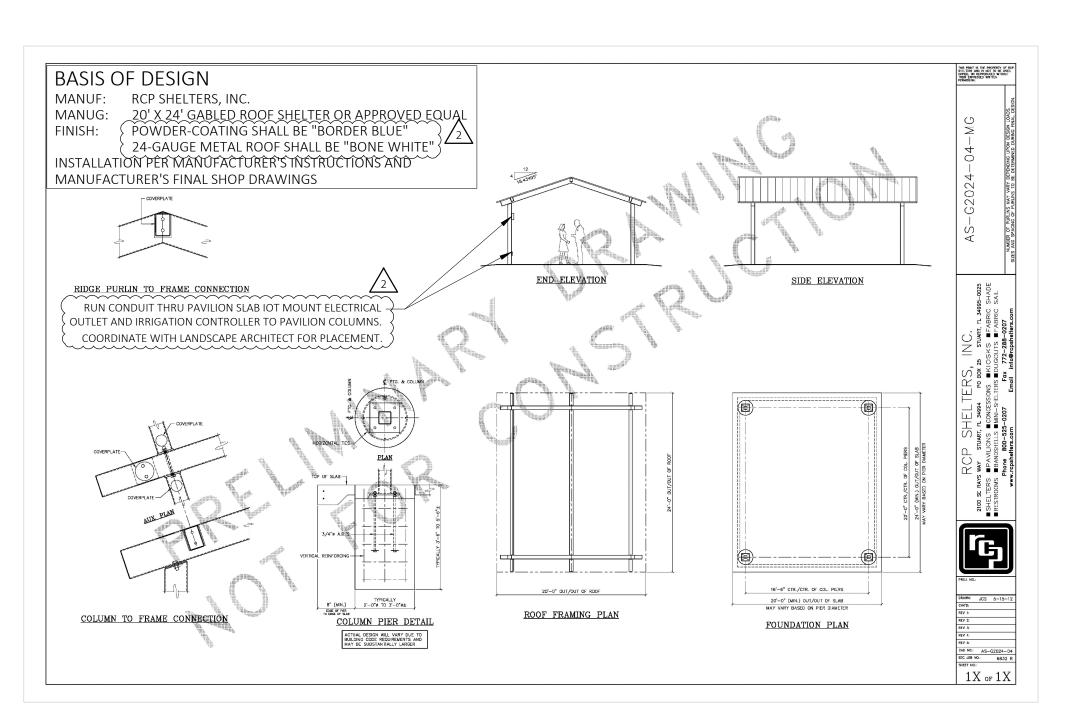
FORE SPECIFICATION ON BIKE PAD CONSTRUCTION AND

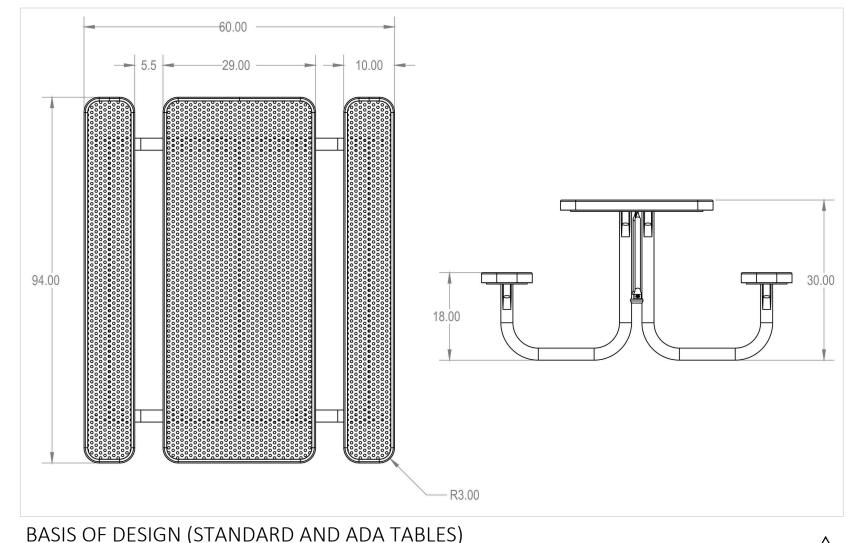
DIMENSIONS REFER TO CITY OF GAINESVILLE ENGINEER AND

INSTALLATION PER MANUFACTURER INSTRUCTIONS

P-CO-RES-54

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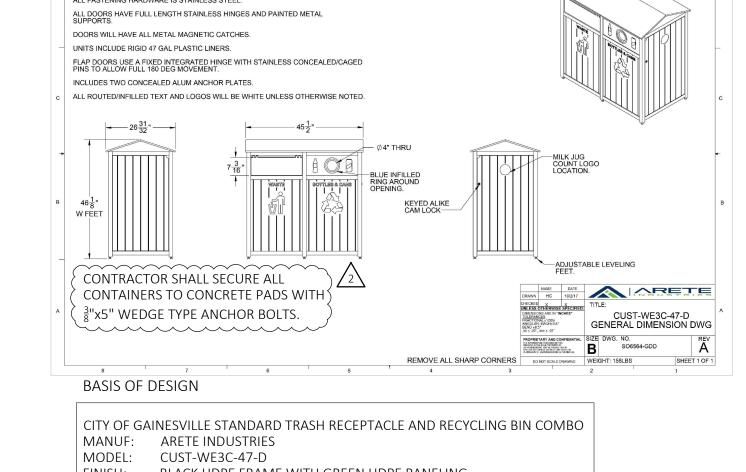




# ULTRA PLAY 8' WIDE RECTANGULAR OUTDOOR TABLE SERIES 238-V8 OR MYTCOAT 8' PICNIC TABLE (SEEN ABOVE) FOR STANDARD) TABLES, 238H-V8 FOR ADA TABLES DIAMOND PATTERN TOP, ROUND EDGE, THERMOPLASTIC FINISH 2-3/8" OD WELDED STEEL TUBING, POWDER COATED, BLACK

WALK-THROUGH DESIGN THRÉE (3) STANDARD PICNIC TABLES SHALL HAVE A BLUE THERMOPLASTIC FINISH, AND TWO (2) STANDARD AND ONE (1) ADA ( PICNIC TABLE SHALL HAVE A GREEN THERMOPLASTIC FINISH.

GAINESVILLE CITY STANDARD - 8 PICNIC TABLE



BLACK HDPE FRAME WITH GREEN HDPE PANELING INSTALLATION PER MANUFACTURER RECOMMENDATION

CITY OF GAINESVILLE STANDARD TRASH RECEPTICLE P-CO-RES-16

ed and sealed and the signature must be verified LA 6667110 一十一 STATE OF Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084 Ph 904.825.6747 www.halback.co LC0000391 PPROVED DRAWN BY: HECKED BY: PROJECT MANAGER: JM AILHE, TR

HARDS(  $\triangleleft$ Δ UNITY

ML+H PROJECT NO.: 18.39.0 DRAWING NO.:

L-2.7

PRIME PROJECT NO.:

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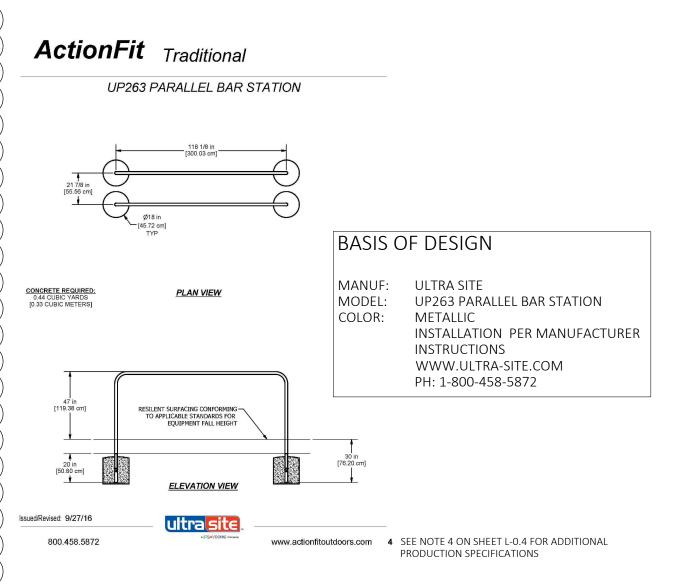
24' X 20' PAVILLION-

NOT TO SCALE

P-CO-RES-67

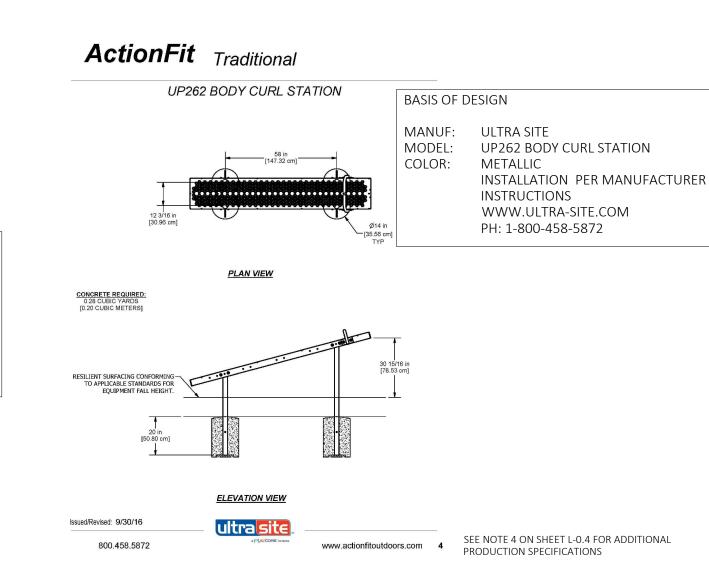
P-CO-RES-19





**ACTION FIT - PARALLEL BAR STATION** 

ActionFit FitTech



**DETAIL-PERMANENT OUTDOOR SPINNER** 

TWISTER SPINNER NOTES:

INSTRUCTIONS

MOUNTING ANGLE.

info@izoneimaging.com

1.888.464.9663

PANEL: iZONE CUSTOM HIGH PRESSURE LAMINATE, 0.750" THICK, ICE FINISH, 20x18 PANEL SIZE, MOUNT PER MANUFACTURER INSTRUCTIONS. ARROW: iZONE CUSTOM HIGH

PRESSURE LAMINATE, 0.750" THICK, ICE

FINISH, MOUNT PER MANUFACTURER

HARDWARE: iZONE IMAGING SURFACE MOUNT ALL ALUMINUM POST, 20x16 STANDARD MOUNT PLATE, 30-DEGREE

P-CO-UNI-22

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\$ LA 6667110

Marquis Latimer + Halback, Inc.

34 Cordova Street, Suite A

St. Augustine, FL 32084

Ph 904.825.6747 www.halback.co

PROJECT MANAGER: JM

SIGNS

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EQUIPMENT

EXERCISE

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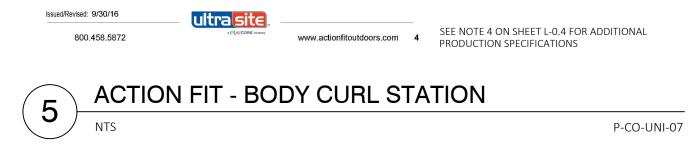
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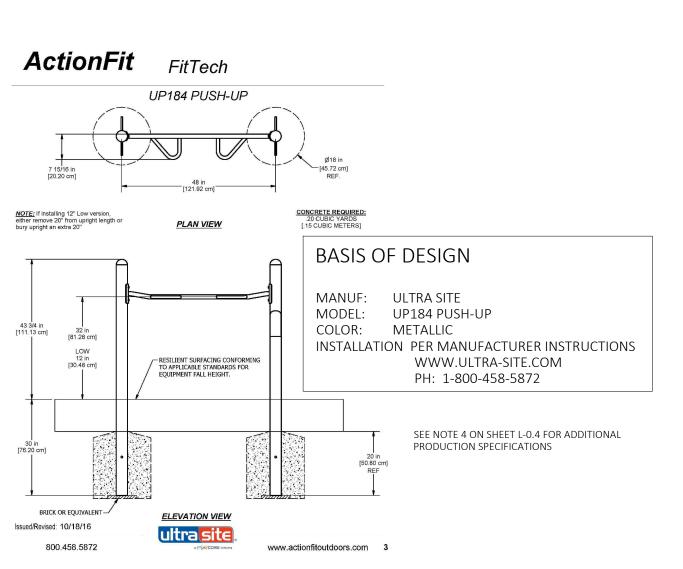
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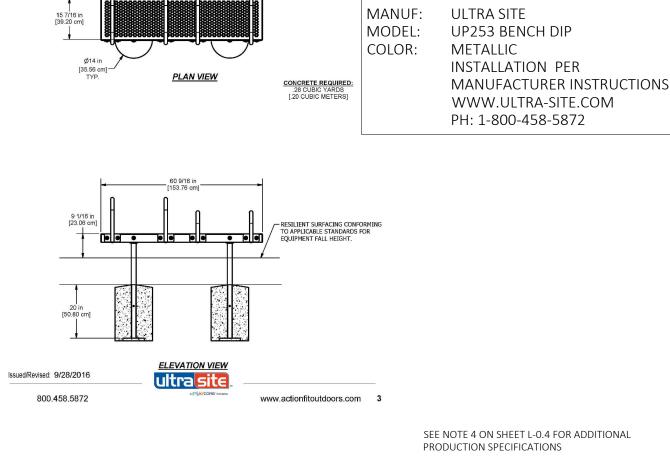
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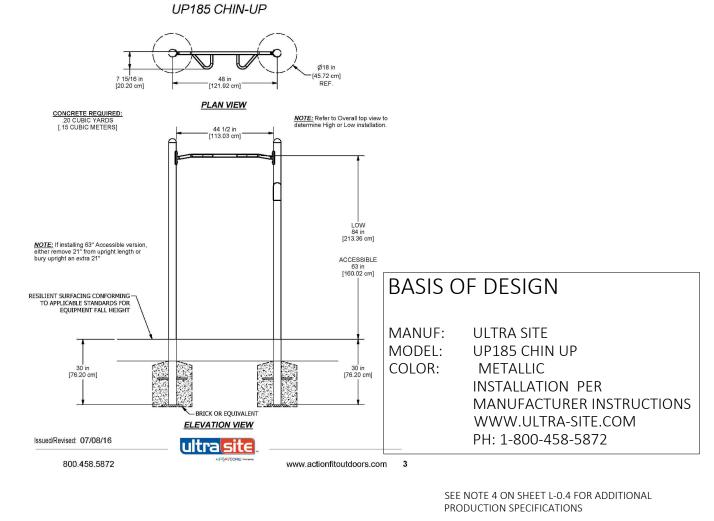
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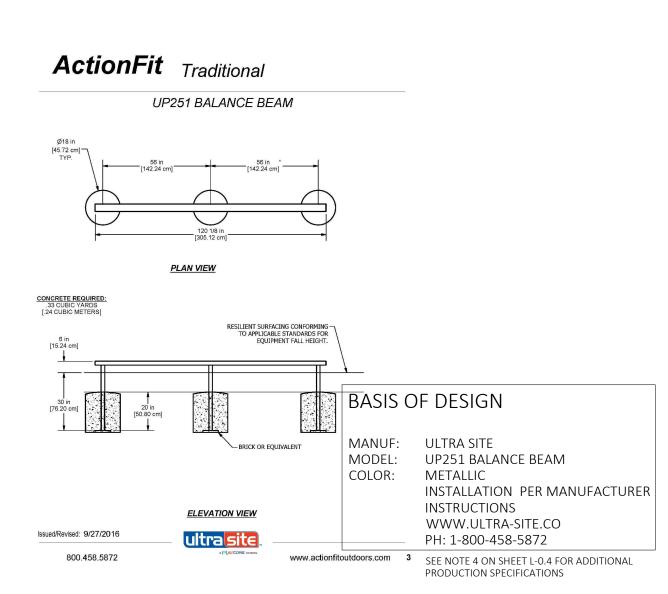


BASIS OF DESIGN



**ACTION FIT - CHIN UP** P-CO-UNI-04

**ACTION FIT - PUSH UP** NOT TO SCALE P-CO-UNI-02



**ACTION FIT - BALANCE BEAM** 

P-CO-UNI-06

**ACTION FIT - BENCH DIP** 

ActionFit Traditional

**UP253 BENCH DIP** 

P-CO-UNI-05

P-CO-UNI-08

HARDSCAPE Δ UNITY 10 SIZE: PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

DRAWING NO.: L-2.8 — EDGE OF PAVEMENT OR PLANTING BED BOUNDARY - EDGE OF BEDLINE NOTE: LAYOUT PLANTS IN A TRIANGULAR PATTERN AS SHOWN, SPACED EQUALLY FROM EACH OTHER (AT SPACING SPECIFIED IN THE PLANT LIST) AND IN STRAIGHT ROWS. SPACING MAY BE ADJUSTED SLIGHTLY

AND EDGE OF BEDLINE (TYP.)

TO CREATE SMOOTH FLOWING BEDLINES AS SHOWN ON

DETAIL-SHRUB & GROUNDCOVER SPACING

CLEARANCE (MULCH STRIP) BETWEEN PLANT FOLIAGE

LANDSCAPE PLANS. PROVIDE 6"-12" UNIFORM

PLANTING SOIL MIX - 2/3 ON-SITE SOIL, 1/3 PEAT. CONTRACTOR TO SUBMIT ANY PROPOSED SUBSTITUTE FOR APPROVAL.

AND PLANTING SOIL MIX IS TO CONSIST OF

3" MULCH MINIMUM - DO NOT COVER MAIN STEM —

DETAIL-SHRUB & GROUNDCOVER PLANTING NOT TO SCALE P-CO-RES-58

**DETAIL-TREE PLANTING** 

NOT TO SCALE P-CO-RES-57

— DO NOT PRUNE UPON INSTALLATION. QUALITY PLANT MATERIAL DOES NOT REQUIRE INSTALLATION PRUNING.

TRADITIONAL STAKING IS NOT NEEDED FOR TREES WITH MORE THAN 2" CALIPER. USE THE ROOT

- IDENTIFY ROOT FLARE AND REMOVE EXCESS SOIL IF NECESSARY. PLANT WITH ROOT FLARE NO MORE

PLANTING HOLE TO BE 90% DEPTH OF ROOT BALL

APPROPRIATE TIME RELEASE FERTILIZER.

— 3" SOIL BERM; KEEP SOIL OFF OF TRUNK.

SYNTHETIC MATERIALS COMPLETELY.

- REMOVE CIRCLING ROOTS.

TURN BACK BURLAP ONE THIRD IF BALLED & BURLAPPED. REMOVE STRAPPING WIRE & ALL

ROOT STABILIZATION SYSTEM ON BOTH SIDES OF

TRUNK, 12" APART. 2X6 UNTREATED PINE (ROOT BALL

WIDTH, 4/TREE) 4" FROM TRUNK, 3/4" POLYESTER

STRAPPING & PLASTIC OR METAL EARTH ANCHORS

(8/TREE), BURIED 36-48" INTO UNDISTURBED SOIL.

AND TWO TIMES THE ROOT BALL WIDTH. HEAVILY

— MINIMUM 3" MULCH; 6" SEPARATION FROM TRUNK.

WATER BACKFILL TO REMOVE AIR POCKETS. PROVIDE

STABILIZATION SYSTEM SHOWN.

THAN 1-3" ABOVE GRADE.

ANNUAL BEDS ARE TO BE TILLED TO A DEPTH OF 8" 1/3 ON-SITE SOIL, 1/3 PEAT, AND 1/3 VERMICULITE. PROVIDE APPROPRIATE TIME-RELEASE FERTILIZER PER MANUFACTURER'S RECOMMENDATIONS SET TOP OF ROOT BALL 1" ABOVE FINISH GRADE  $-\!-\!$ 12" MINIMUM DEPTH OF  $\gamma$ PLANTING SOIL MIX IN GROUNDCOVER PLANTING BEDS PROVIDE 6" MINIMUM CLEARANCE AROUND -ROOT BALL (SIDES AND BOTTOM)

PLANT SCHEDULE

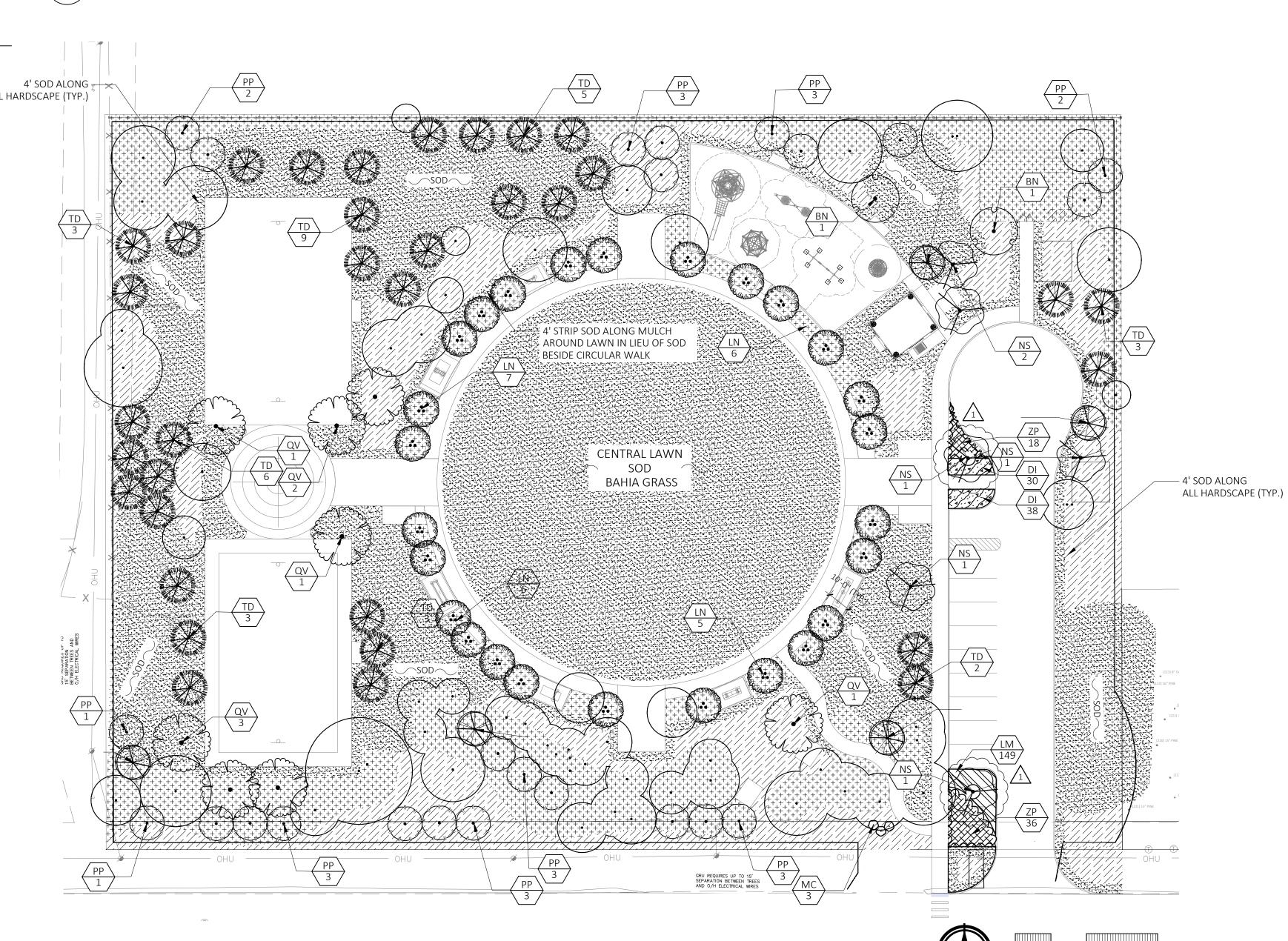
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PLAINT SCF	IEDUL	.C						
TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE		<u>QTY</u>	DETAIL
	BN	Betula nigra / River Birch Multi-Trunk	30 gal.	Multi Trunk	14`		2	ALL I
	LN	Lagerstroemia indica x faurei `Natchez` / Natchez Crape Myrtle (Note: single trunk)	30 gal.		10'-12'		26	
	NS	Nyssa sylvatica / Sour Gum	B&B	2"	10`		6	
• )	PP	Pinus palustris / Longleaf Pine	as needed	2"	8`		24	
	PF	Prunus umbellata / Flatwoods Plum	30 gal.		8,		5	
•	QV	Quercus virginiana / Southern Live Oak	as needed	2"	8`-10`		8	
	TD	Taxodium distichum / Bald Cypress	as needed	2.5"	8`-10`		34	
SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	FIELD2			QTY	
lacksquare	MC	Myrica cerifera / Wax Myrtle	7 gal	3`			3	
SHRUB AREAS	CODE	BOTANICAL / COMMON NAME	CONT			SPACING	QTY	
	DI	Dietes iridioides / Fortnight Lily	1 gal			24" o.c.	68	
	LM	Liriope muscari / Lily Turf	1 gal			16" o.c.	149	
	ZP	Zamia pumila / Coontie	3 gal			36" o.c.	54	
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT				QTY	$\wedge$
	PN	Paspalum notatum / Bahia Grass Install sod with 4` strip along hardscape or as noted; full sod in central lawn and in stormwater areas.	Sod				58,693 sf	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	PA	Paspalum notatum `Argentine` / Bahia Grass with Wild Flower Seed	Hydroseed			{	17,884 sf	}

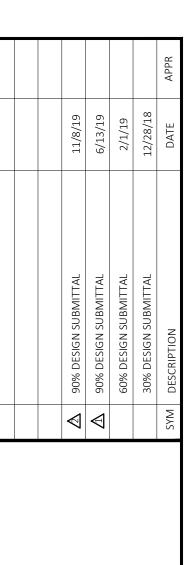
P-CO-RES-56

# **GROUND COVER**

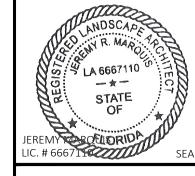
MULCH Spread to minimum 3" depth 20,380 sf



NOTE: CAD UCS ROTATED 0.7890-DEGREES CC TO MAKE SOUTHERN PROPERTY LINE LEVEL



emy Marquis, RLA on the Date and/or Time Stamp hown using a digital signature. Irinted copies of this document are not conside ed and sealed and the signature must be verifie



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St. Augustine, FL 32084

APPROVED

DRAWN BY: PROJECT MANAGER: JM

> TRAILHEAD **ATWOODS**

**UNITY PARK** 

SIZE:
PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

DRAWING NO.: L3.1

15' 30'

SCALE: 1"=30'

# IRRIGATION SCHEDULE SYMBOL MANUFACTURER/MODEL/DESCRIPTION QTY PSI 2 2 2 2 2 2 2 Rain Bird 1806-U U12 Series 30 Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Rain Bird 1806-U U15 Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. 104 \*Rain Bird 1800-1300AF Flood Adjustable Flow (1.0-2.3GPM), Full circle bubbler, 1/2" FIPT TEMPORARY TREE BUBBLERS FOR ESTABLISHMENT MANUFACTURER/MODEL SYMBOL Rain Bird 5004-PC,FC-MPR SYMBOL MANUFACTURER/MODEL/DESCRIPTION QTY Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. Hose Bibb 3,362 l.f. Irrigation Lateral Line: PVC Class 200 SDR 21 \_\_\_\_ Irrigation Mainline: PVC Schedule 40 1,525 l.f. Pipe Sleeve: PVC Class 200 100.7 l.f. \_\_\_\_\_ Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. Valve Callout ---- Valve Number Irrigation Controller — HOSE BIB, SEE CIVIL - CONTROLLER PLACED ON 🏃 PEDESTAL AT PAVILION SLEEVING TO SERVE THREE VALVES WITHIN CENTRAL CONNECT INTO LAWN. PROPOSED METER INSTALL BACKFLOW PREVENTER PER CIVIL GRU FLOW: 30 GPM PSI: 60 PSI GRU REQUIRES UP TO 15' SEPARATION BETWEEN TREES AND O/H ELECTRICAL WIRES (RIGHT OF WAY) GRU REQUIRES UP TO 15' SEPARATION BETWEEN TREES AND O/H ELECTRICAL WIRES NE 31ST AVENUE NE 31ST AVENUE (60' RIGHT OF WAY) - IRRIGATE FOR ESTABLISHMENT (RIGHT OF WAY) SANITARY SEWER MANHOLE -NORTH RIM = 168.42' EAST INVERT = 148.90' WEST INVERT = 148.89' SANITARY SEWER MANHOLE NORTH RIM = 165.78' EAST INVERT = 148.48' WEST INVERT = 148.49' SANITARY SEWER MANHOLE — NORTH RIM = 165.60' EAST INVERT = 148.22' WEST INVERT = 148.22' NORTH TOP OF PIPE = 161.35' SANITARY SEWER MANHOLE NORTH RIM = 168.21' EAST INVERT = 149.10' WEST INVERT = 149.10'

DERIVED FROM DEGROVE SURVEYORS, INC., DRAWING

DATE 08/22/2018

15' 30' SCALE: 1"=30'

NOTE: CAD UCS ROTATED 0.7890-DEGREES CC

TO MAKE SOUTHERN PROPERTY LINE LEVEL

10 SIZE: ANSI D PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

IRRIGATION

Jeremy Marquis, RLA on the Date and/or Time Sta

igned and sealed and the signature must be veri

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Ph 904.825.6747 www.halback.co

PROJECT MANAGER: JM

LC0000391

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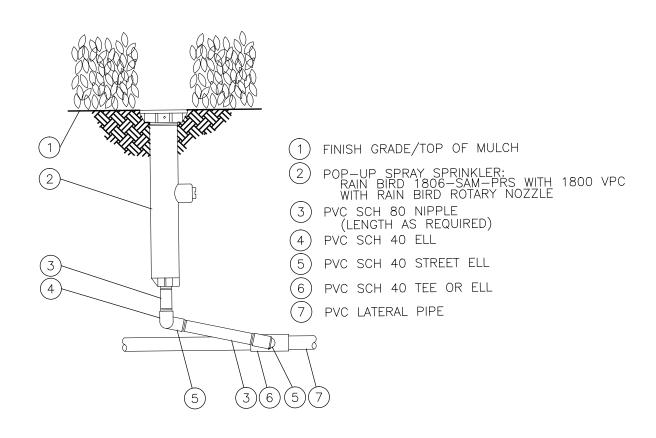
DRAWN BY: HECKED BY:

TRAILHEAD

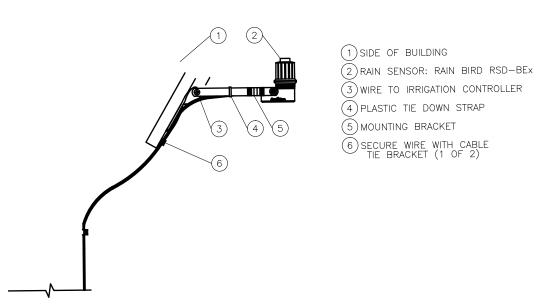
**ATWOODS** 

**UNITY PARK** 

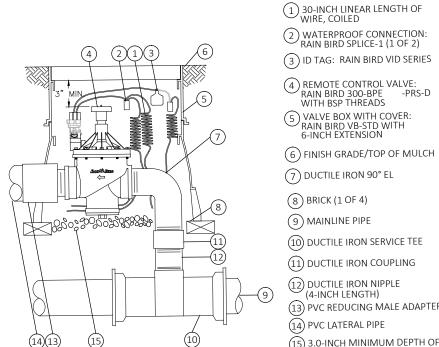
DRAWING NO.: L-5.1



RAINBIRD POP-UP SPRAY SPRINKLER 1806 W. SWING JOINT not to scale L-5.2



RAIN SENSOR not to scale L-5.2



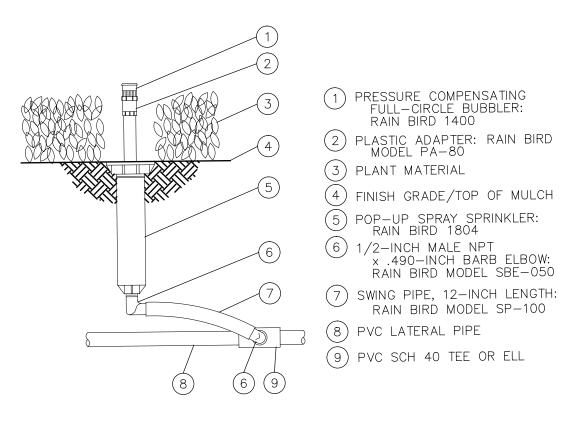
(11) DUCTILE IRON COUPLING DUCTILE IRON NIPPLE (4-INCH LENGTH) 13) PVC REDUCING MALE ADAPTER (14) PVC LATERAL PIPE 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

(8) BRICK (1 OF 4)

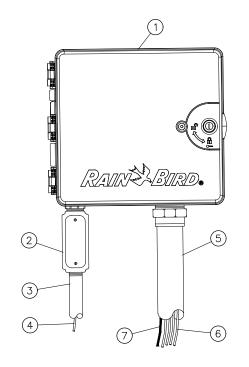
(9) MAINLINE PIPE

10) DUCTILE IRON SERVICE TEE

RAINBIRD VALVE / not to scale



RAINBIRD PRESSURE COMPENSATING FULL CIRCLE BUBBLER 1400 ON 1804 POP-UP L-5.2 / not to scale



 IRRIGATION CONTROLLER:
 RAIN BIRD ESP12-LXMEF-LXMM CONTROLLER WITH FLOW SMART MODULE IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AT ADMINIST ON WALL PER MANUFACTURER'S RECOMMENDATIONS.

#### 2 JUNCTION BOX

3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY

(4) FINISH GRADE/TOP OF MULCH

(4) POWER SUPPLY WIRE

(5) 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES

(6) MASTER VALVE AND REMOTE CONTROL VALVE WIRES

7 FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR

1. ESP12-LXMEF-LXMM CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.

2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.

3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.

4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

CONTROLLER not to scale

△       90% DESIGN SUBMITTAL       11/8/19         △       90% DESIGN SUBMITTAL       6/13/19         60% DESIGN SUBMITTAL       2/1/19         30% DESIGN SUBMITTAL       12/28/18         SYM       DESCRIPTION       DATE					
UBMITTAL UBMITTAL UBMITTAL					
UBMITTAL UBMITTAL UBMITTAL					
UBMITTAL UBMITTAL UBMITTAL	7	$\square$	90% DESIGN SUBMITTAL	11/8/19	
UBMITTAL	7	A	90% DESIGN SUBMITTAL	6/13/19	
UBMITTAL			60% DESIGN SUBMITTAL	2/1/19	
			30% DESIGN SUBMITTAL	12/28/18	
	S	SYM	DESCRIPTION	DATE	APPR

eremy Marquis, RLA on the Date and/or Time Stamp nown using a digital signature. nted copies of this document are not considered



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DRAWN BY: CHECKED BY: PROJECT MANAGER: JM

FLATWOODS TRAILHEAD

**UNITY PARK** 

- IRRIGATION

DETAILS .

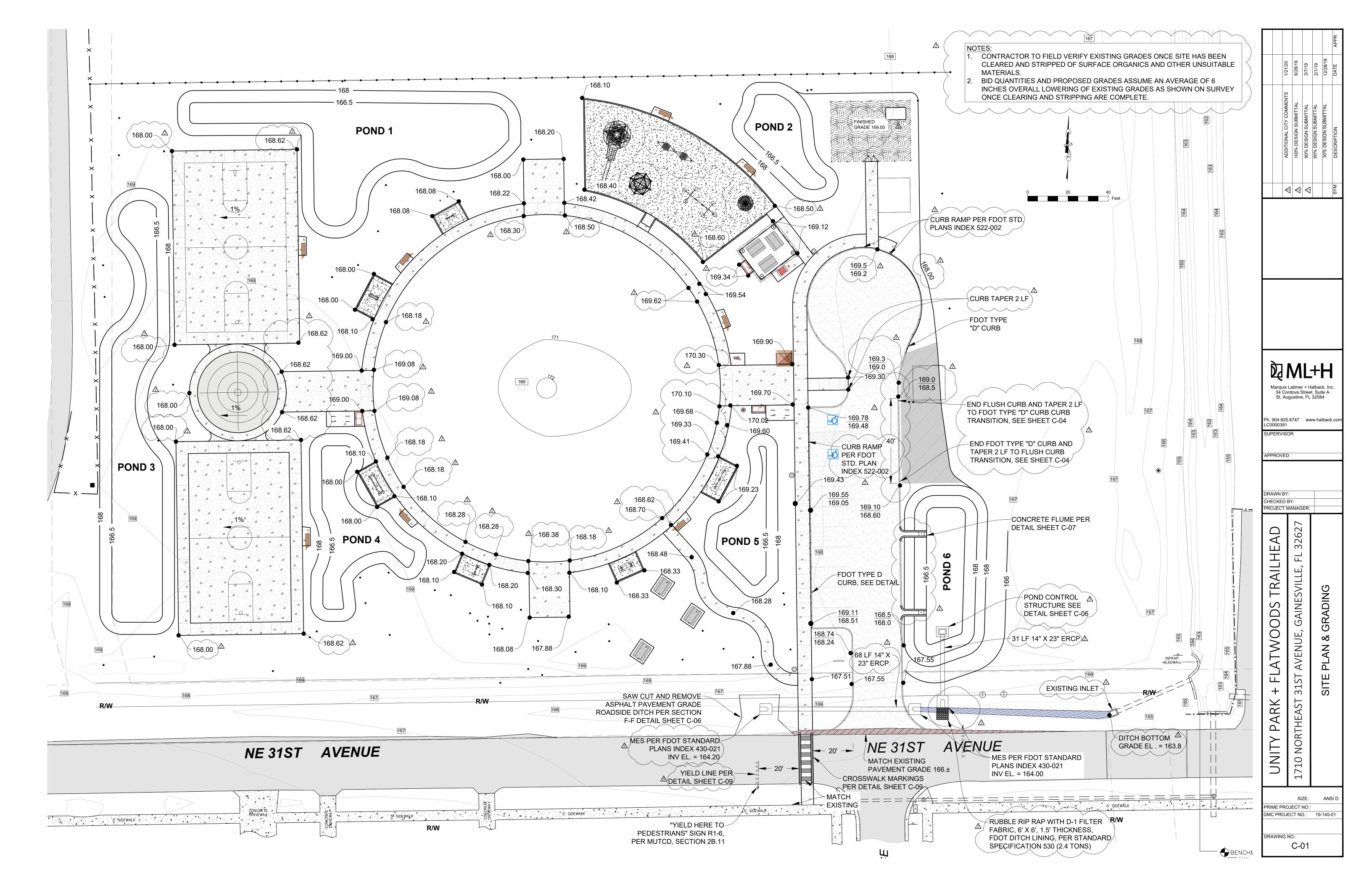
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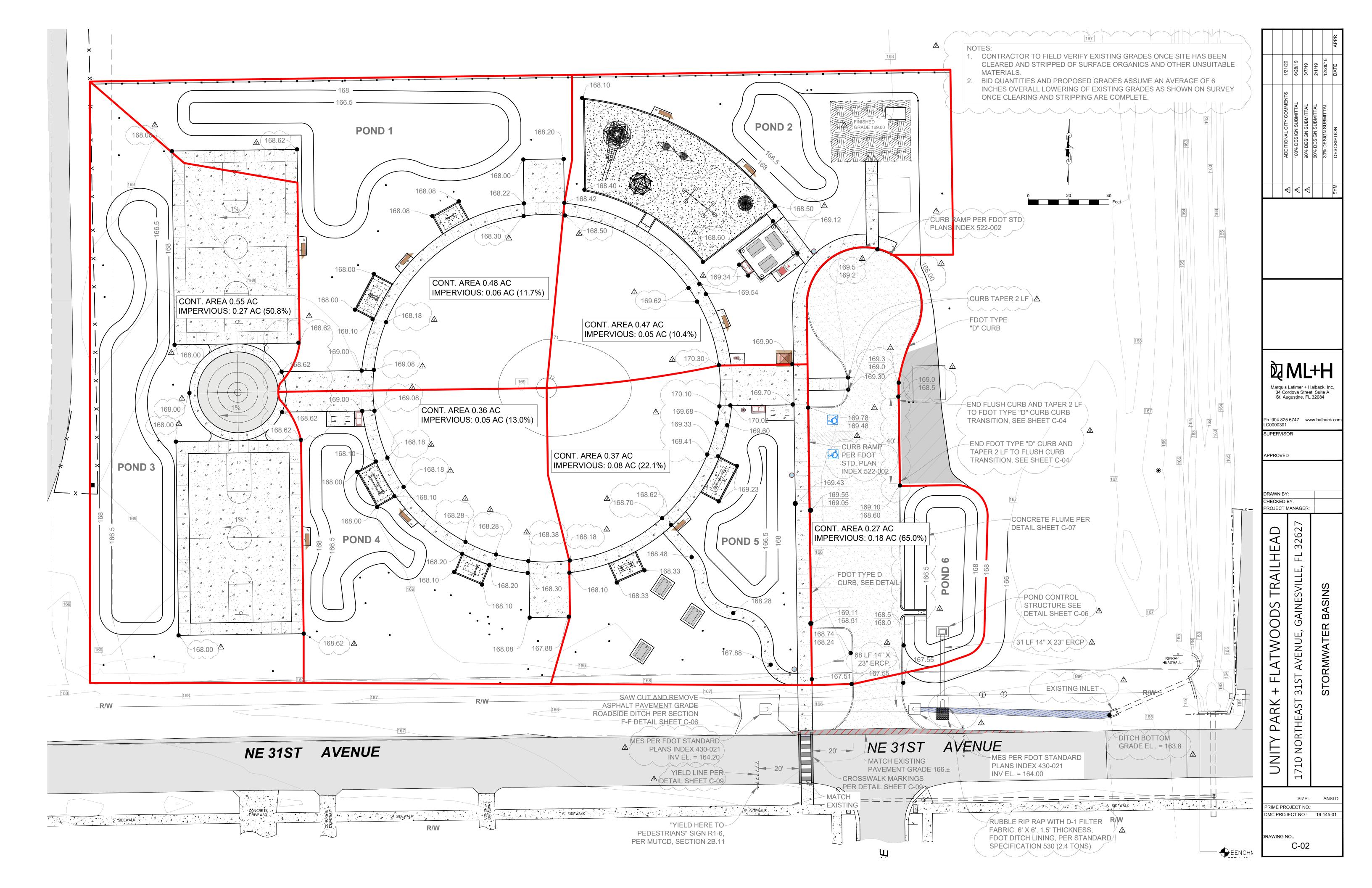
PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

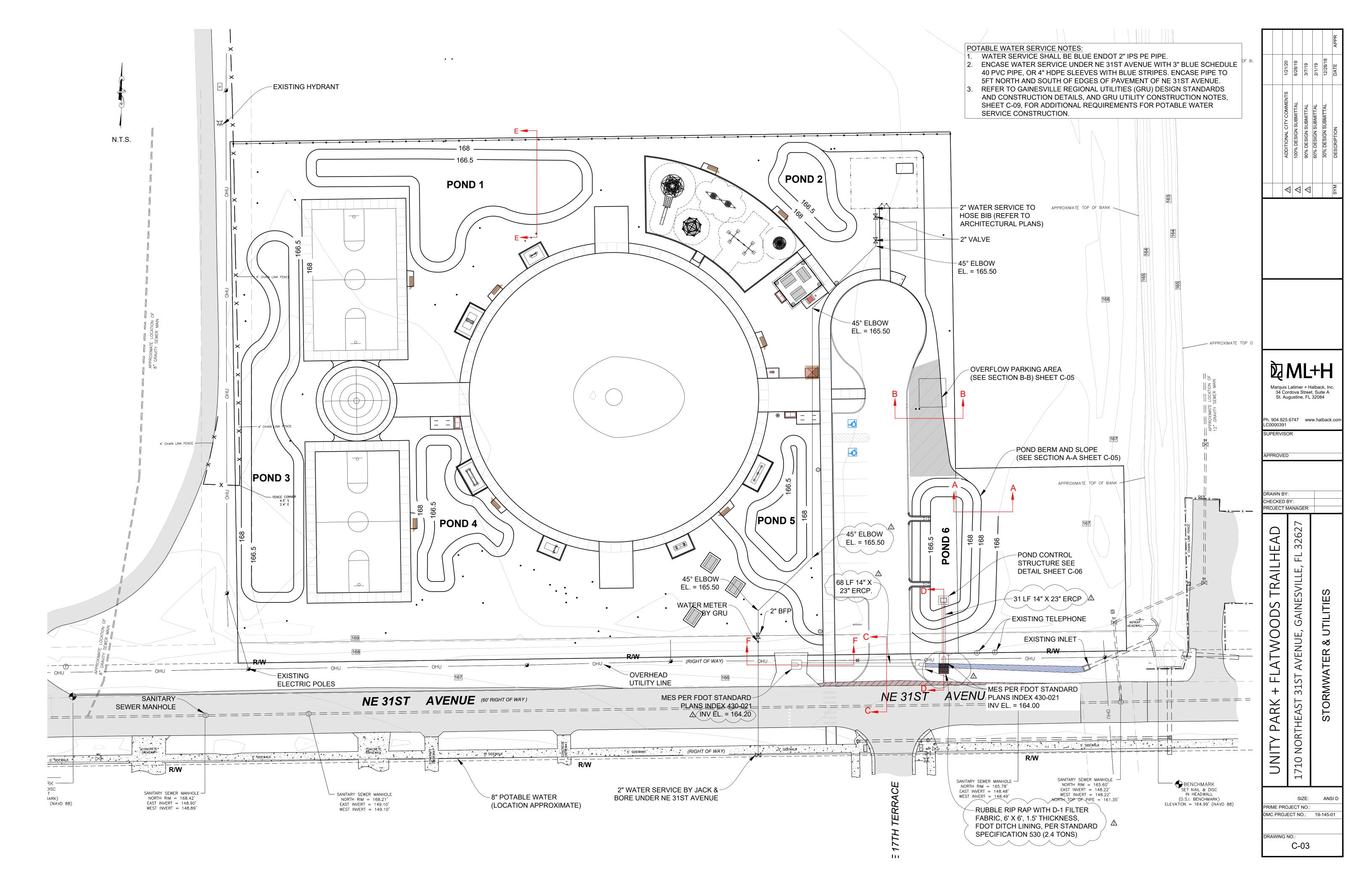
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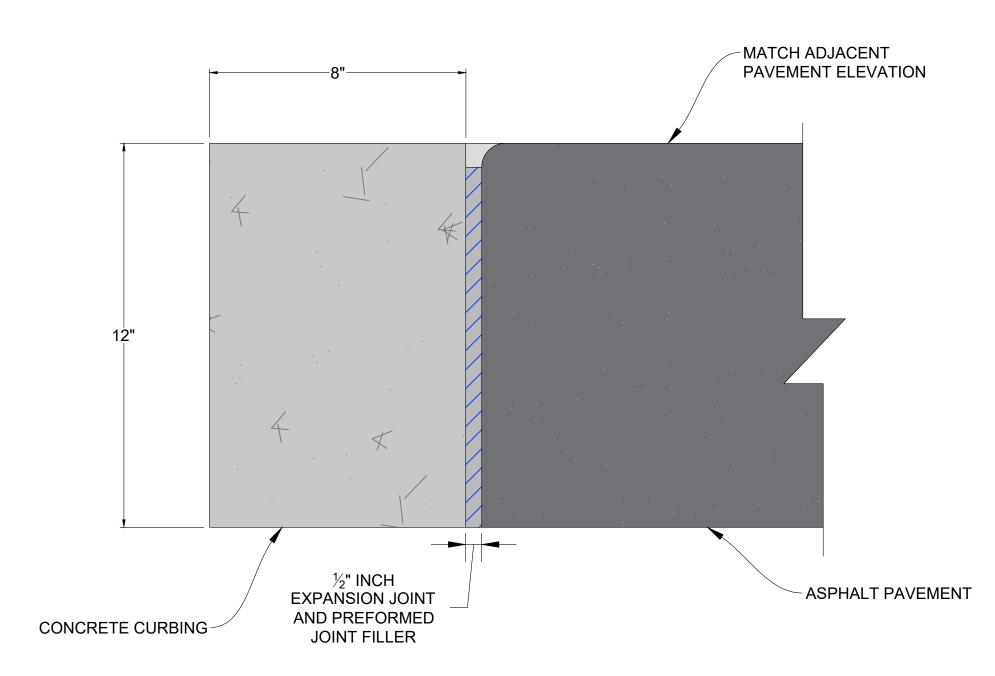
DRAWING NO.:

L-5.2



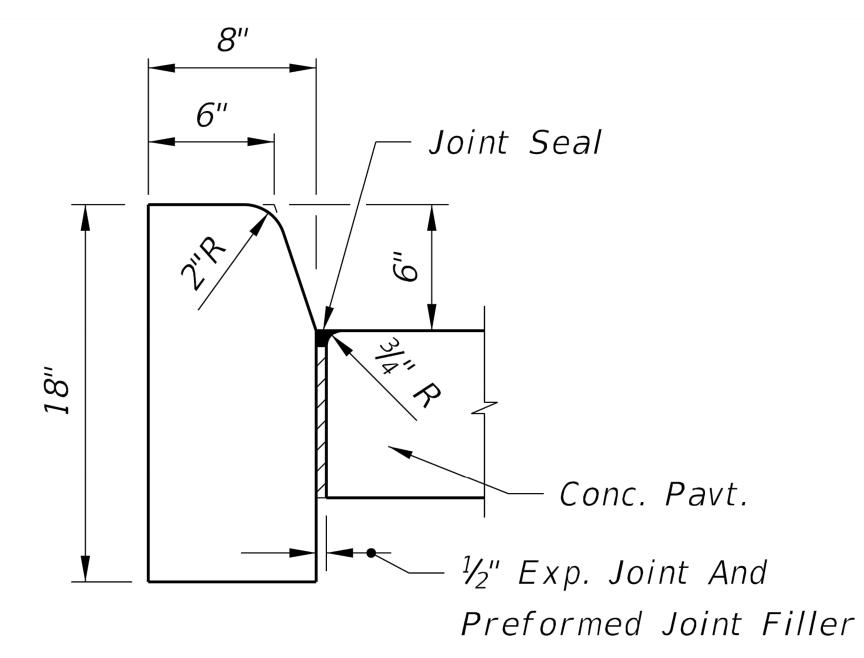






FLUSH CURB

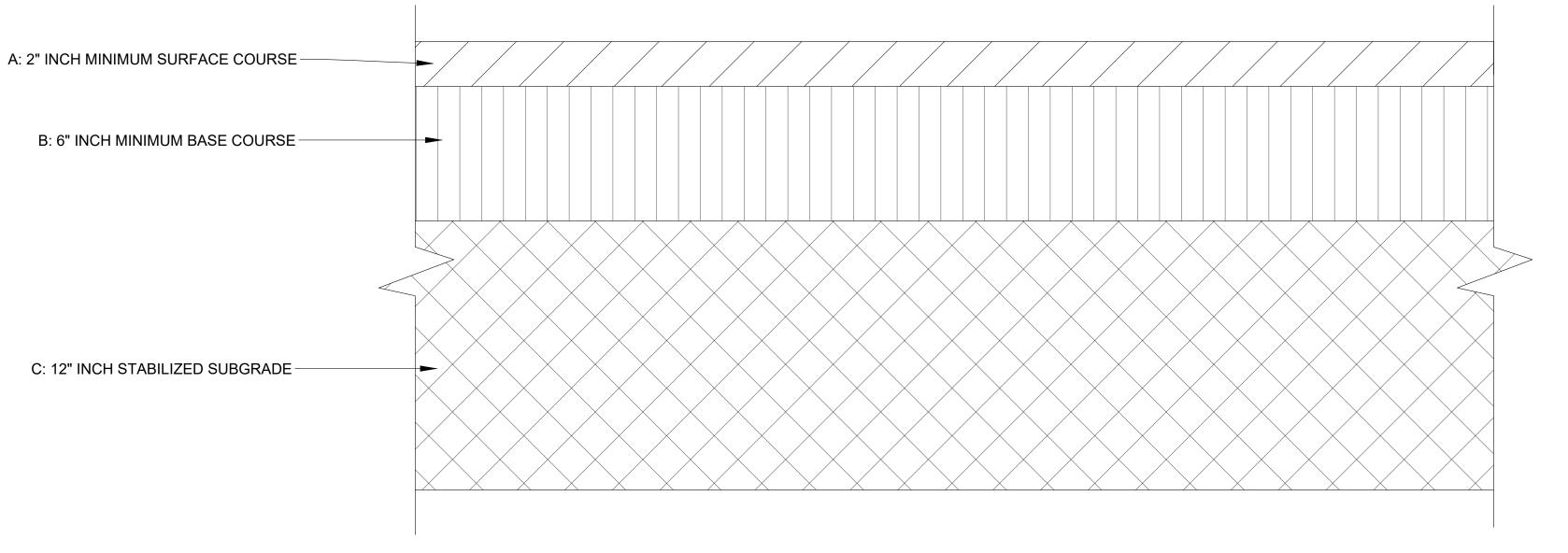
4" = 1'



TYPE D

SEE GENERAL NOTES SHEET C-10 "CURB"

CONCRETE CURB N.T.S.



# ASPHALT PAVEMENT DETAIL

3" = 1'

- A: 2" INCH SUPERPAVE, 9.5mm TRAFFIC LEVEL "A" MIX AS PER FDOT SPECIFICATIONS.
- B: 6" INCH CRUSHED CONCRETE BASE COURSE MINIMUM LIMEROCK BEARING RATIO (LBR) VALUE OF 100 COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% OF THE MATERIALS MODIFIED PROCTOR (ASTM D-1557, AASHTO T-180) LABORATORY MAXIMUM DRY DENSITY.
- C: 12" INCH STABILIZED SUBGRADE FDOT TYPE "B" STABILIZATION MATERIAL WITH MINIMUM LIMEROCK BEARING RATIO (LBR) VALUE OF 40. SUBGRADE TO BE COMPACTED TO A MINIMUM REACTIVE COMPACTION OF 98% OF THE MATERIAL'S MODIFIED PROCTOR VALUE PER ASTM D-1557, AASHTO T-180.

$\triangleleft$	ADDITIONAL CITY COMMENTS	1/21/20	
$\triangleleft$	100% DESIGN SUBMITTAL	6/28/19	
$\bigvee$	90% DESIGN SUBMITTAL	3/7/19	
	60% DESIGN SUBMITTAL	2/1/19	
	30% DESIGN SUBMITTAL	12/28/18	
SYM	DESCRIPTION	DATE	API



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SUPERVISOR

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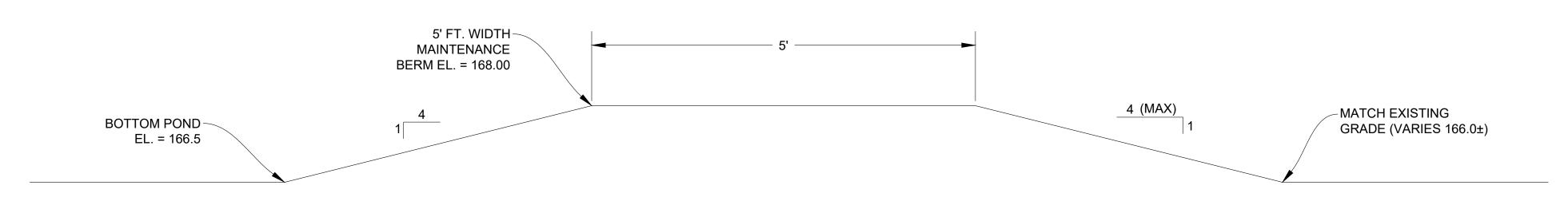
UNITY PARK + FLATWOODS TRAILHEAD 1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 32627

SIZE: ANSI D PRIME PROJECT NO.:

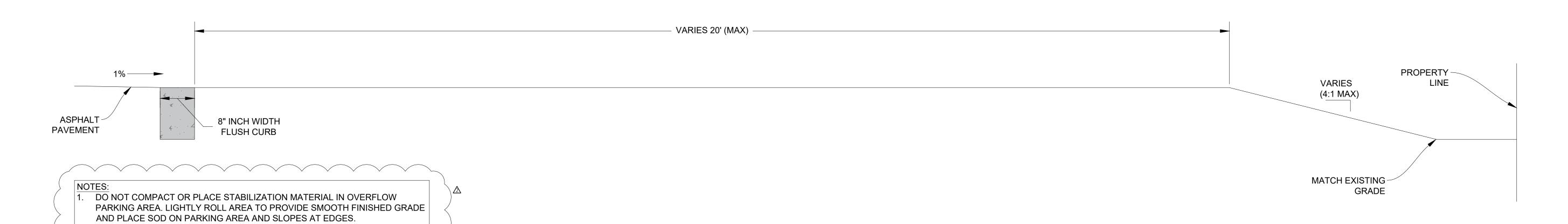
DRAWING NO.: C-04

DMC PROJECT NO.: 19-145-01

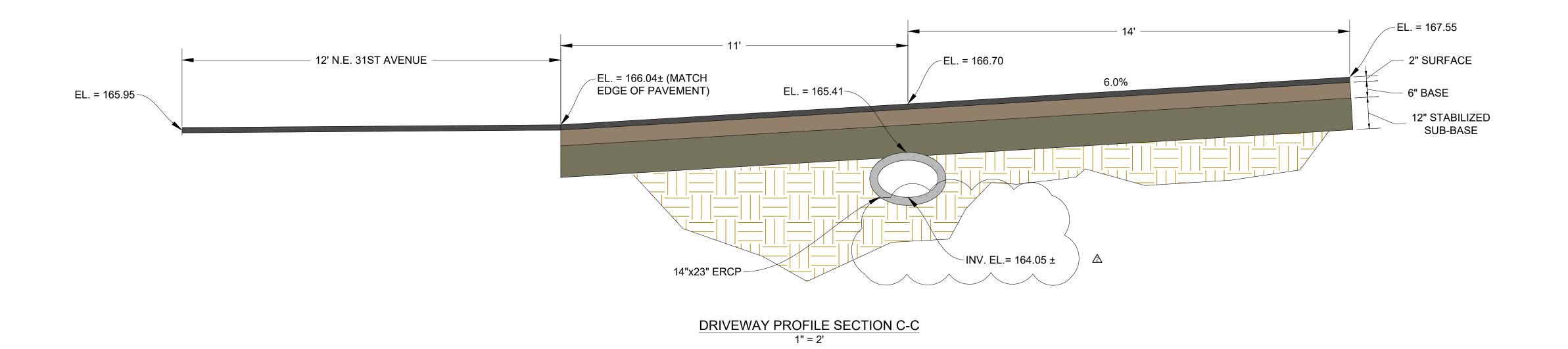




# EASTERN & SOUTHERN POND BERM AND SLOPE SECTION A-A



#### OVERFLOW PARKING AREA SECTION B-B 1" = 1'



	ADDITIONAL CITY COMMENTS	1/21/20	
$\forall$	100% DESIGN SUBMITTAL	6/28/19	
$\triangleleft$	90% DESIGN SUBMITTAL	3/7/19	
	60% DESIGN SUBMITTAL	2/1/19	
	30% DESIGN SUBMITTAL	12/28/18	
SYM	DESCRIPTION	DATE	APPR

₩ML+H
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PROJECT MANAGER:

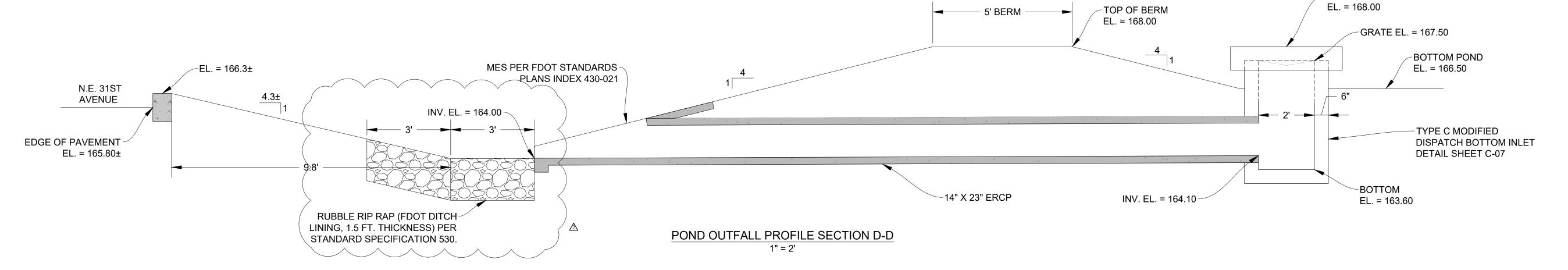
UNITY PARK + FLATWOODS TRAILHEAD
1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 3262
CROSS-SECTIONS

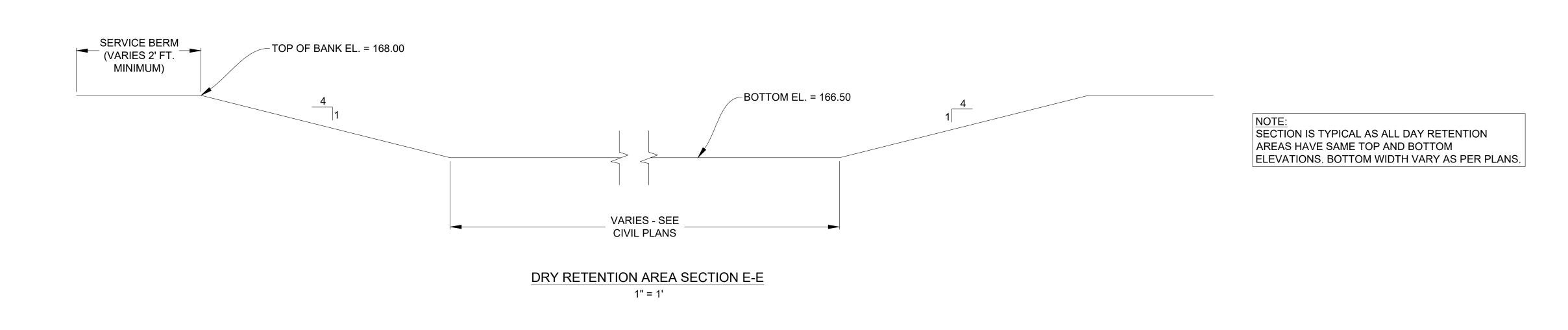
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PRIME PROJECT NO.:
DMC PROJECT NO.: 19-145-01

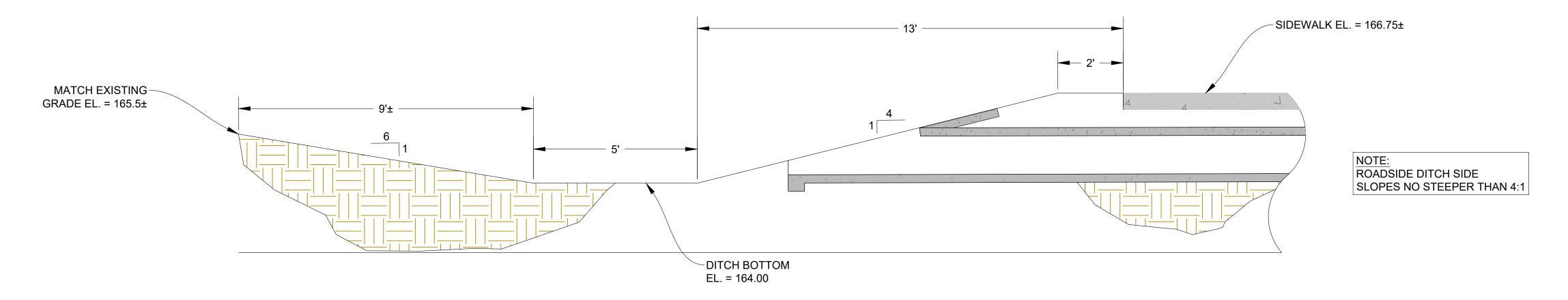
DRAWING NO.:

C-05









ROADSIDE DITCH AT WEST END ON SIDE DRAIN PROFILE VIEW SECTION F-F 1" = 2'

						APPR
	1/21/20	6/28/19	3/7/19	2/1/19	12/28/18	DATE
	ADDITIONAL CITY COMMENTS	100% DESIGN SUBMITTAL	90% DESIGN SUBMITTAL	60% DESIGN SUBMITTAL	30% DESIGN SUBMITTAL	DESCRIPTION
	<b>€</b>	abla	$\triangleleft$			SYM

TOP OF SKIMMER

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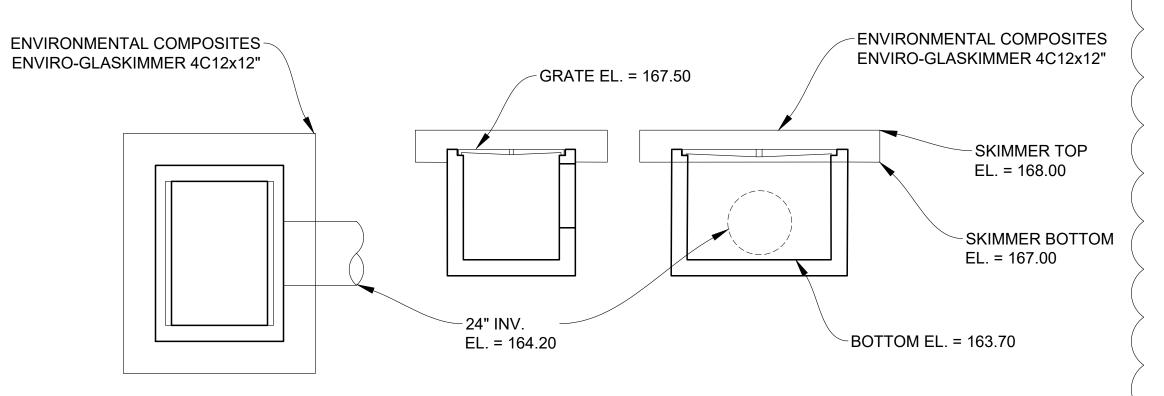
DRAWN BY:
CHECKED BY:
PROJECT MANAGER:

UNITY PARK + FLATWOODS TRAILHEAD
710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 32627

SIZE: ANSI D
PRIME PROJECT NO.:
DMC PROJECT NO.: 19-145-01

C-06

DRAWING NO.:

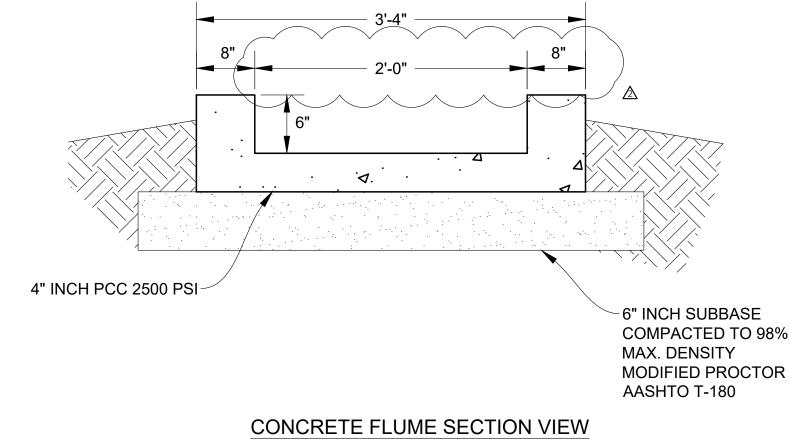


CONTROL STRUCTURE MODIFIED FDOT "C" DITCH BOTTOM INLET

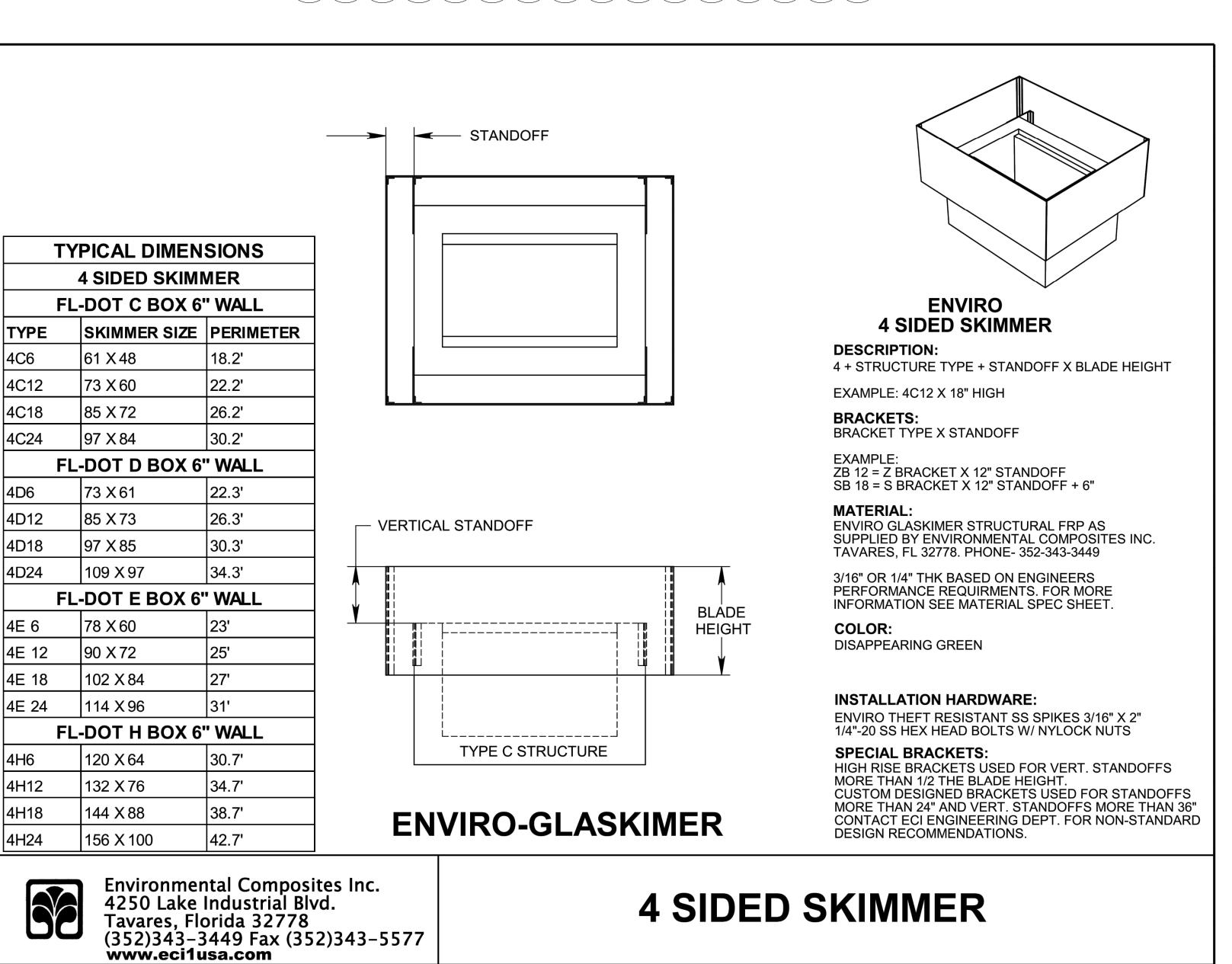
(STANDARD PLANS INDEX 425-052) 1" = 3' EDGE OF GUTTER

(5) 4"x4"x8" CONCRETE
BLOCKS, PLACE LONG SIDE
FACING FLOW WAY. SECURE
IN PLACE WITH GROUT,
CONTRACTOR TO PROVIDE
SHOP DRAWINGS.

CONCRETE FLUME PLAN VIEW
N.T.S.



N.T.S.



SOLIDWORKS

<b>4</b>	ADDITIONAL CITY COMMENTS	1/21/20	
$\triangleleft$	100% DESIGN SUBMITTAL	6/28/19	
$\triangleleft$	90% DESIGN SUBMITTAL	3/7/19	
	60% DESIGN SUBMITTAL	2/1/19	
	30% DESIGN SUBMITTAL	12/28/18	
SYM	DESCRIPTION	DATE	APPF



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SUPERVISOR

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DRAWN BY:

DRAWN BY:
CHECKED BY:
PROJECT MANAGER:

UNITY PARK + FLATWOODS TRAILHEAD

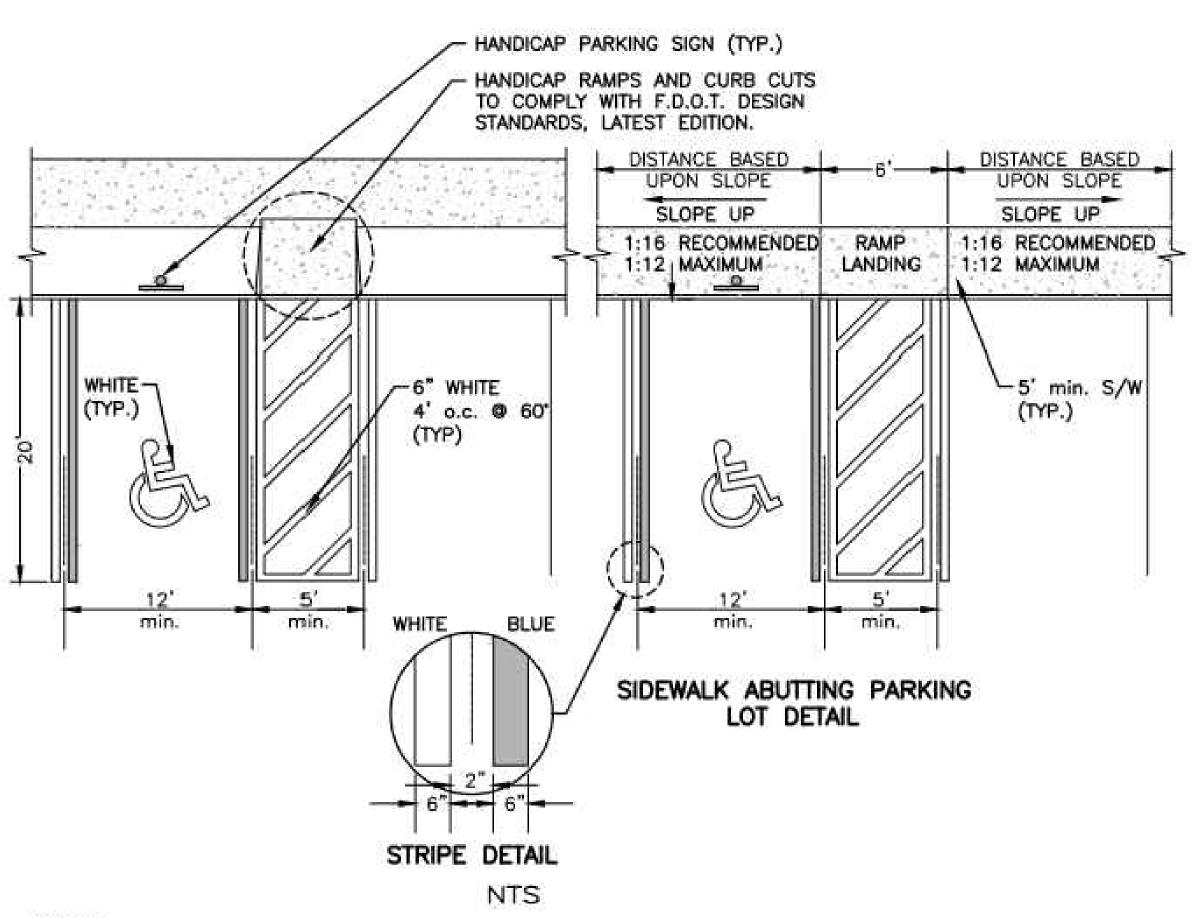
1710 NORTHEAST 31ST AVENUE, GAINESVILLE, FL 3262

STORMWATER DETAILS

SIZE: ANSI I
PRIME PROJECT NO.:
DMC PROJECT NO.: 19-145-01

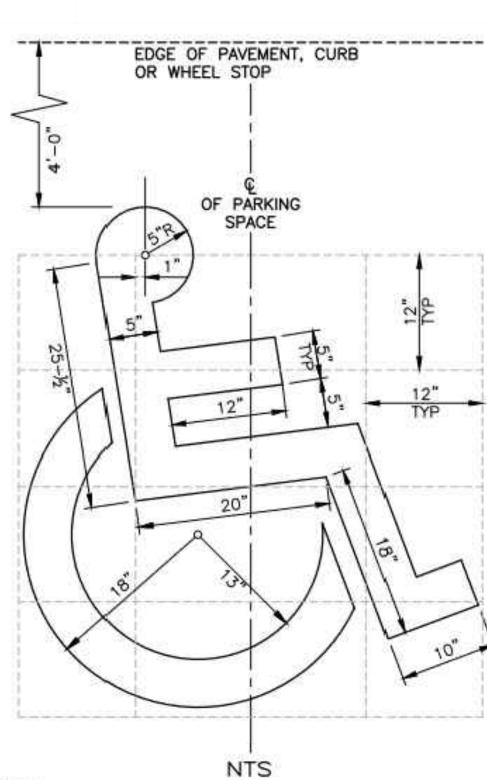
DRAWING NO.:

C-07

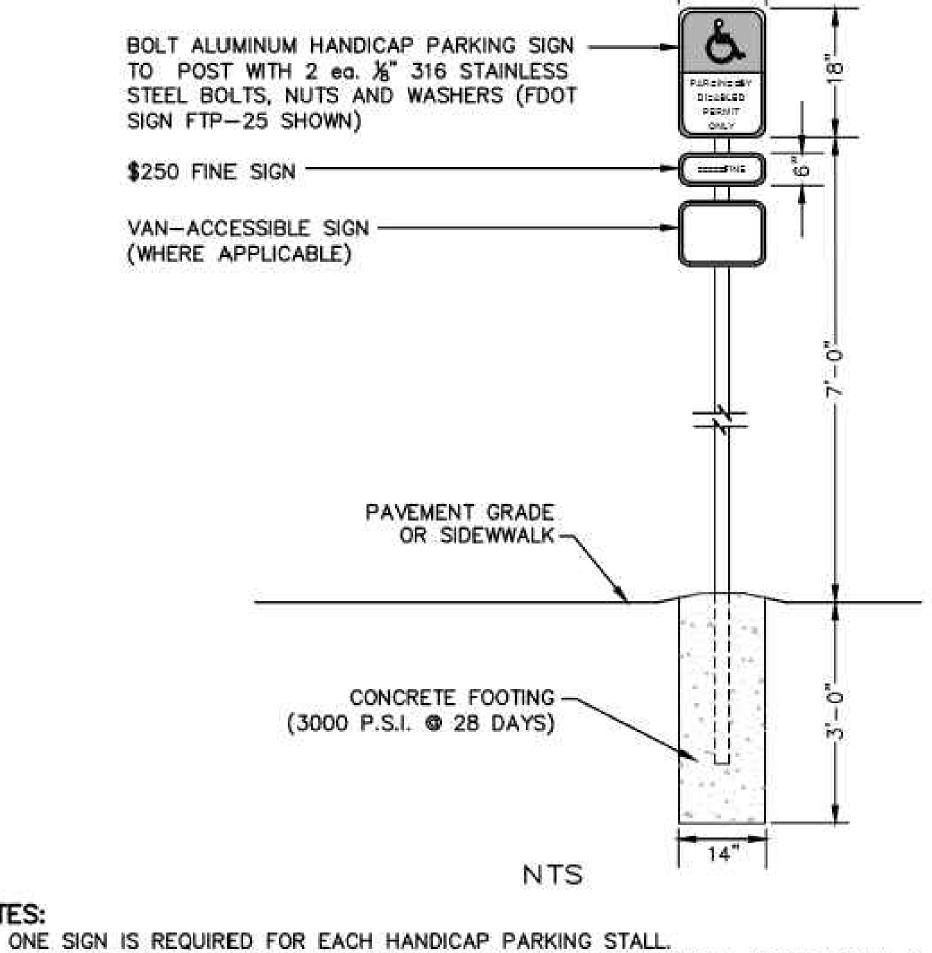


- 1. ALL HANDICAP PARKING STALLS, 5' ACCESS AISLES, HANDICAP RAMPS AND ACCESSIBLE ROUTES SHALL BE PAVED.
- 2. PERPENDICULAR AND DIAGONAL HANDICAP PARKING STALLS WILL BE 12'-0" WIDE AND 20'-0" LONG WITH A 5'-0" min. WIDE ACCESS AISLE ADJACENT TO EACH STALL. THE 5' ACCESS AISLE MAY BE SHARED BY TWO ADJACENT HANDICAP PARKING STALLS.
- PARALLEL HANDICAP PARKING STALLS WILL BE 12'-0" WIDE AND 22'-0" LONG WITH A 5'-0" min. WIDE ACCESS AISLE ADJACENT TO EACH STALL
- 4. ALL HANDICAP RAMPS SHALL BE OF 5'-0" min. WIDE EXCLUSIVE OF THE FLARED SIDES WITH A MAXIMUM SLOPE OF 1:21. HANDICAP RAMPS AND CURB CUTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST EDITION.
- BLUE STRIPING SHALL BE BLUE TINT TO MATCH SHADE 15180 OF FEDERAL STANDARD 595a.
- WHEN FDOT TYPE 'D' CURB IS USED IN LIEU OF WHEEL STOPS, SIDEWALK ABUTTING CURB SHALL BE WIDENED BY 18" min. SO THAT THE TOTAL SIDEWALK WIDTH IS 72" min. ALLOWING FOR 54" min. CLEAR ACCESSIBLE ROUTE.
- 7. 6' WHEEL STOPS ARE TO BE CENTERED SIDE TO SIDE IN EACH PARKING STALL, REFER TO CODB STANDARD DETAIL M-1 (dbM-1.dwg).
- 8. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
- DIMENSIONS ARE CENTERLINE OF PAVEMENT MARKINGS.
- 10. FOR COMPLETE DETAIL OF HANDICAP SIGN INSTALLATION, REFER TO CODB STANDARD DETAIL M-6 (dbM-6.dwg).

NOTE: NOTE 7 ABOVE IS DELETED. DO NOT FURNISH WHEEL STOPS.



PAVEMENT SYMBOL SHALL BE SOLID WHITE IN COLOR AND COMPLY WITH FDOT DESIGN STANDARDS, LATEST EDITION.



- HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE LOCAL & ADA CODES & REGULATIONS, LATEST EDITION.
- SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDERS APPLIED TO A SHEET OF ALUMINUM (12"x 18"x 0.80").
- MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 5. THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEEL-CHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
- 6. SUPPLEMENTAL SIGN PLATES SHALL BE UPPER CASE (SERIES B) 1" BLUE OR BLACK MESSAGE LETTERING W/ 1/2" BLUE OR BLACK BORDER ON WHITE BACK GROUND.
- 7. METAL SIGN POSTS TO BE GALVANIZED U-IRON. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE 316 STAINLESS STEEL.
- CONCRETE FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. @ 28 DAYS.
- SIGN POST SHALL BE MINIMUM 2'-0" CLEAR FROM BACK OF CURB OR WHEEL STOP.
- 10. SIGN POST SHALL BE DESIGNED TO WITHSTAND 120 M.P.H. WIND LOAD.

			1/21/20	6/28/19	3/7/19	2/1/19	12/28/18
			ADDITIONAL CITY COMMENTS	100% DESIGN SUBMITTAL	90% DESIGN SUBMITTAL	60% DESIGN SUBMITTAL	30% DESIGN SUBMITTAL
			<b>□</b>	$\triangleleft$	lacksquare		
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s	APP	ROV	Eυ				
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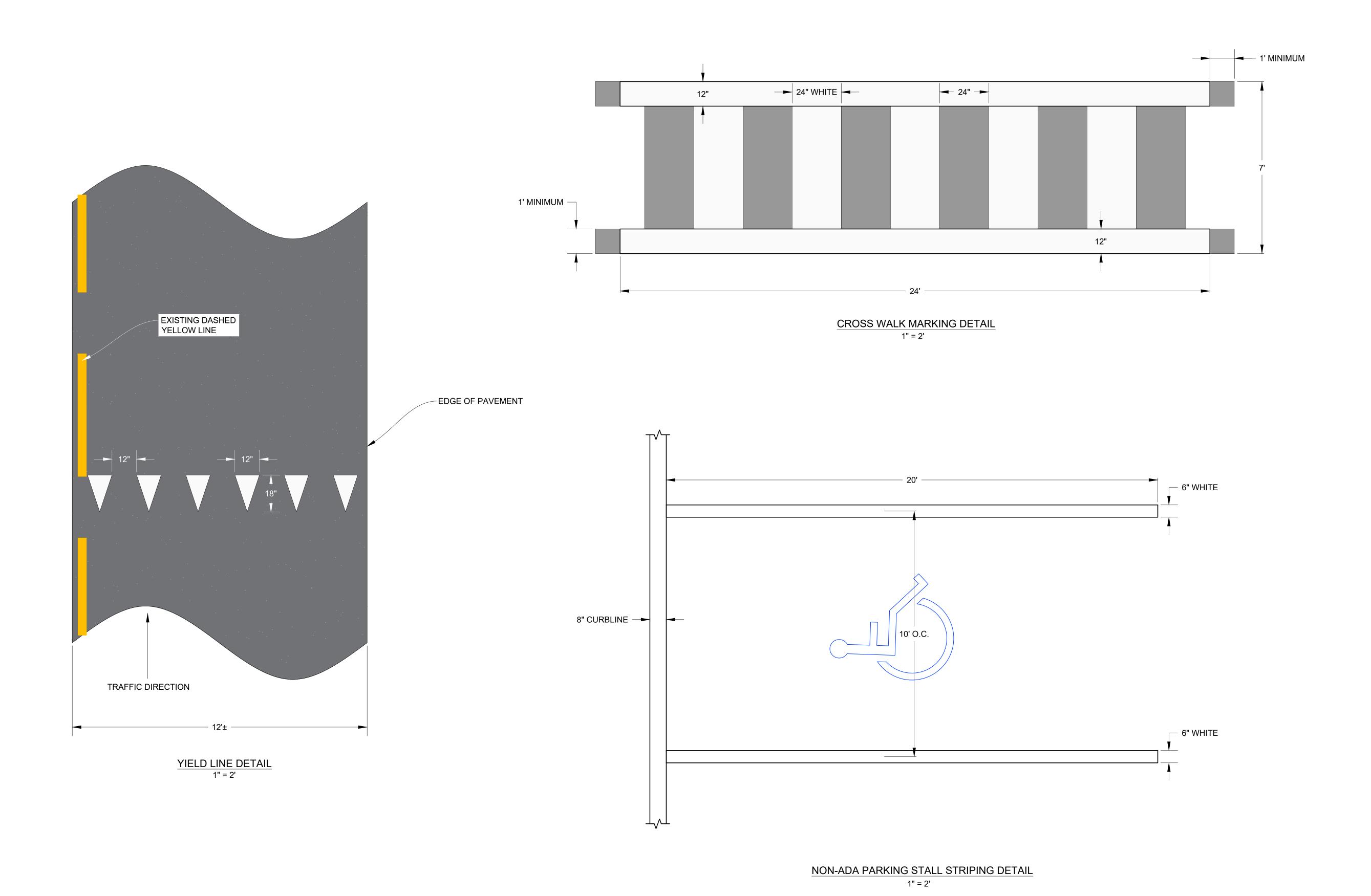
DRAWN BY CHECKED I PROJECT N	BY:	
- FLATWOODS TRAILHEAD	1ST AVENUE, GAINESVILLE, FL 32627	ING & SIGNAGE DETAILS

SIZE:	ANSI D
PRIME PROJECT NO.:	
DMC PROJECT NO.:	19-145-01
DRAWING NO ·	

C-08

1710 NORTHEAST

**UNITY PARK** 



ADDITIONAL CITY COMMENTS   1/21/20	Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084  Ph. 904.825.6747 www.halback.com  Ph. 904.825.6747 www.halback.com  Ph. 904.825.6747 www.halback.com  Ph. 904.825.6747 www.halback.com
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Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084  Ph. 904.825.6747 www.halback.com LC0000391	Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084  Ph. 904.825.6747 www.halback.com LC0000391  SUPERVISOR  APPROVED  DRAWN BY: CHECKED BY: PROJECT MANAGER:
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DRAWING NO.:

C-09

#### **IMPORTANT NOTES TO BIDDERS:**

- 1. The Contractor shall retain all material delivery tickets, material testing reports and cut-sheets/shop drawings for manufactured products for the project and provide copies to the Engineer on a weekly basis. The Engineer will not make a structure certification if the Contractor does not comply with this requirement.
- 2. The Engineer must be under contract with the Owner, Developer or Contractor for construction observations in order to provide certification of the constructed project.
- 3. The Engineer must be given advanced notice of any critical stages of construction such as: initial construction stakeout, placement of tree protection, completion of formwork for concrete, etc. The Engineer will not make a structure certification if the contractor does not comply with this requirement.
- 4. A Pre-Construction meeting must be scheduled before start of construction and all parties are to attend including: Owner or Owner's Representative, Engineer, Prime Contractor, Sub-Contractor(s), Surveyor, Applicable Tradesmen, etc. The Engineer will lead the meeting and provide a list of critical items to discuss.

#### **GENERAL**:

- 1. All elevations in the project plans are referenced to feet N.A.V.D. 1988.
- 2. Any deviation from these plans, notes or specifications must be approved in writing by the Owner, Owner's Representative or Engineer, or else the deviation will be considered construction non-compliant with the plans and specifications.
- 3. Any discrepancies amongst the plans, notes, specifications and other bid documents must be resolved in writing by the Owner, Owner's Representative or Engineer prior to continuing the
- 4. These plans, notes and specifications, along with the other components of the project bidding documents, constitute the only instructions to bidders/contractors, unless written addenda are
- 5. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the Engineer for review and approval prior to construction.
- 6. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.
- 7. For the purpose of these specifications, "Project Completion" is defined as completion of an agreed upon list of punchlist items compiled in a planned project walkthrough held at a time the Contractor considers the project to be "Substantially Complete". The Contractor shall notify the Owner and Engineer at least 48 hours in advance of substantial completion and schedule a mutually agreeable walkthrough.

#### AS-BUILT SURVEY AND RECORD DRAWINGS

- 1. As-built survey and record drawings shall be submitted at the time of the punchlist review and shall be reviewed by the Engineer for completeness and correctness.
- 2. The record drawings shall be a designated set of drawings maintained on site for the purpose of hand-making all changes and deviations from the original design, no matter how slight. Color markings are preferred.
- 3. The record drawings shall also contain any and all field changed with respect to location, alignment, height, width, length, depth, materials, products, etc.

#### DESIGN SPECIFICATIONS:

- 1. City of Gainesville Engineering Design and Construction Manual, and all applicable City of Gainesville Standard Specifications.
- 2. FDOT Design Standards, Latest Edition.
- 3. Florida Building Code: Accessibility, 2017 Edition.

#### Florida Safety Code, Latest Edition. MOBILIZATION AND DEMOBILIZATION:

- 1. The Contractor shall present a Shipping, Stockpile and Site Administration Plan (SSSAP) to the Owner, Owner's Representative or Engineer for approval. The plan shall be specific to the project requirements for the particular materials to be delivered to the site, describing delivery points, stockpile areas, temporary debris/trash storage areas, temporary field office (incl. utilities maintained there), fencing, security and a statement of commitment and details for maintaining safety on the site.
- 2. The Owner, Owner's Representative or Engineer shall have the right to exercise reasonable alterations or additions to the SSSAP.
- 3. It is the Contractor's responsibility to coordinate, and pay for, necessary utilities to occupy the site and perform the work.
- 4. The Contractor shall not demobilize until "Project Completion" and all parties have agreed and signed off in writing.

#### SITE MAINTENANCE:

- 1. The Contractor shall maintain a clean and neat site, void of loose debris, trash, remnant parts
- 2. Trash receptacles and removal service shall be maintained by the Contractor specifically for this project. Pre-existing trash/debris facilities shall not be used to maintain the project.
- 3. Temporary debris piles shall be limited in number as much as practical and contained in designated areas until removal. Debris and trash shall not be scattered in areas outside the limited designated areas at anytime.
- 4. Removal of trash/debris shall be scheduled as appropriate to not allow piles to reach five feet in height or greater than ten feet in diameter. Debris individually larger than these dimensions shall be removed from the site within five working days. Receptacles shall not overflow at any
- 5. Where necessary, the Contractor shall employ a Maintenance of Traffic Plan (MOTP) for vehicles and pedestrians, including material deliveries, stockpile area(s), worker parking and construction equipment. The plan must be in writing, including sketches or drawings, and must be submitted to the Owner, Owner's Representative or Engineer for review and approval before commencement of any work.
- 6. The Contractor shall follow all applicable local, state and federal codes regarding site maintenance

#### SITE SAFETY:

The Contractor shall prepare and adhere to a Site-Specific Safety Plan.

#### The contents of the plan are:

- 1. Identification of potential hazards and injuries pertaining to the specific site and project.
- 2. Location nearest hospital. 3. Assure availability of at least one working cell phone and one vehicle on site at all times.
- 4. Emergency contacts within the subcontractor's organization and at the prime contractor's
- 5. All field personnel wear appropriate safety attire and utilize appropriate personal protection equipment for a given task/ operation such as safety glasses/goggles, masks, shields gloves, harnesses, hard hats, steel-toed boots, etc.
- Safety kit available onsite at all times with materials for potential hazards and injuries.
- 7. The Site-Specific Safety Plan shall be distributed and reviewed with all site workers prior to said workers commencing work on the project site.
- 8. The Contractor shall follow all applicable local, state, and federal codes regarding site safety.

#### DEMOLITION, CLEARING AND RESTORATION:

- 1. Demolition or clearing may require permits. The Contractor shall acquire
- all necessary building permits from the local municipality prior to commencing work. 2. Clearing and removal of vegetation, rocks and debris will be required within the project structure footprint.
- 3. Demolition or removal of objects, debris, or material specified or obstructing construction shall take place only to the extent necessary.
- 4. Any permitted demolition or removal from submerged lands or adjacent uplands shall be fully contained within siltation devices such that permit turbidity requirements and state water quality standards are met.
- 5. The site shall be restored by removing and finishing all evidence of construction including temporary haul roads, vehicle ruts, stockpile areas, shoreline slopes and vegetation, sod and areas subject to project work.
- 6. All disturbed areas shall be graded and sodded.

#### CONSTRUCTION SURVEYING:

- 1. Stake-out survey of the project is the responsibility of the Contractor. Beginning and end points will be provided by the Owner, Owner's Representative or Engineer either by stakes in the field or in the project drawings.
- 2. The staked project must be approved by the Engineer prior to commencing construction. The Engineer reserves the right to make alignment changes based on conditions portrayed by the initial stakeout.
- 3. Methods and frequency of continuing stake-out during construction shall be submitted to the Engineer for approval prior to beginning construction.
- 4. The Contractor must perform an independent construction record survey (as-built survey) as a check for compliance at the end of the project. The record survey must be signed and sealed by a State of Florida Licensed Professional Surveyor. The record survey must be referenced to feet N.A.V.D. 1988.
- 5. The awarded Contractor is advised that certification of the project elevations and alignment is required by the Engineer for final acceptance of work.

- 1. Calculations based on the report of Geotechnical Consulting Services, report No. 1636597, dated January 7, 2019, by Universal Engineering Sciences (UES).
- 2. Location: Unity Park, Gainesville, FL.
- 3. Six borings: B-1, B-2, B-3, B-4, B-5 and B-6. Refer to the Geotechnical Report.

#### ENVIRONMENTAL AND PERMITS

- 1. The St. Johns River Water Management District (SJRWMD) the local City or County may exert jurisdiction over construction of the project. The Contractor shall be responsible to understand and comply with all applicable permit conditions imposed by the jurisdictional agencies, if permits are necessary. If not, the Contractor must at least comply with general state water quality standards for siltation and guidelines for encounters with threatened and
- 2. All building and construction-related permits from the local (City or County) or state authorities are the responsibility of the Contractor.

#### INSPECTION COORDINATION:

- 1. The Engineer or Landscape Architect will be conducting routine observations at critical stages of construction. A minimum of 72 hours notice shall be given to the Engineer prior to commencing the critical stages of construction. The complete list of critical stages will be provided by the Engineer at the pre-construction meeting.
- 2. The local City or County may perform their own construction observations in addition to the Engineer or Landscape Architect. No observers other than the Engineer, Landscape Architect or his/her designated representative shall have the authority to determine compliance with plans and specifications.
- 3. Other observers may relay information to the Engineer, but it will be the Contractor's ultimate responsibility to maintain contact and resolve disputes, questions, field changes, payment requests, etc. directly with the Owner, Owner's Representative or Engineer.

#### CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING AND EROSION DESIGN AND CONSTRUCTION NOTES

Comply with City of Gainesville and SJRWMD guidelines. Additionally, the following measures represent minimum standards to be adhered to by the Contractor throughout the construction of this project. The regulatory agencies reserve the right to require additional measures to be employed when warranted by extreme conditions, and/or the failure of the contractor to employ appropriate erosion control best management practices. Failure to comply with these provisions shall result in the issuance of a "stop work order".

1. It shall be the responsibility of the Contractor to have all protective vegetation barricades and erosion control structures and measures in place prior to the commencement of any earthwork, including preliminary grubbing. These measures include, but are not limited to; temporary construction fences, hay bales, silt fences, and floating turbidity barriers. Further, it shall be the responsibility of the Contractor to maintain all erosion control devices throughout the duration of the entire project. Maintenance shall include periodic inspection and removal of debris abutting erosion control devices.

- 2. Prior to the installation of any fill materials on subject site, silt fences shall be installed: (1) along subject site boundary and property lines; (2) at the edge of conservation easements and wetlands; (3) adjacent to natural landscape buffers; (4) around the perimeter of existing storm water treatment facilities, and; (5) at any additional areas that the City deems in need of protection from potential erosion impacts during construction. These conditions shall apply in all instances where fill material is being installed within 25 feet of any of the aforementioned locations. While these items represent the minimum requirements, the City and SJRWMD reserve the right to impose additional protective measures, as determined during actual site visits conducted throughout project construction.
- 3. At a minimum, the Contractor shall seed and mulch all disturbed areas. Sufficient grass coverage is to be established within thirty days.
- 4. Absolutely no burying of cleared materials is permitted.
- 5. A signed, dated, and sealed letter from a Soils Engineer or the Engineer of Record certifying that the areas to be filled have been stripped of organic materials, must be submitted to the
- 6. Fill material is to be placed in one foot lifts and compacted to the appropriate density (98% for paved areas and 98% for building pads and all other areas as per AASHTO T-180).
- 7. If any muck material is discovered, it shall be required to be removed and replaced with a suitable material that is properly backfilled, compacted and tested using AASHTO T-180 modified proctor method.
- 8. Stockpiling is not generally permitted. When allowed, stockpiles shall not exceed six feet in height measured from the original grade. At a minimum, stock piles that will remain in place in excess of twenty days should be seeded and mulched immediately upon placement of the final lift.
- 9. Soils are to be stabilized by water or other means during construction. This is intended to reduce soil erosion and the impact to neighboring communities. Adequate watering methods should be employed to allow daily coverage of the entire limits of all areas that do not have an established vegetative cover. Methods to be employed include, but are not limited to, water trucks, permanent irrigation systems, temporary sprinkler systems operated by pumping units connected to wet retention ponds, water cannons, temporary irrigation systems mounted atop stockpile areas, and other methods as deemed necessary by the County.
- 10. All fill materials located beneath the berms shall consist of clean granular sand free from organics and similar material that could decompose.

#### TECHNICAL SPECIFICATIONS FOR SITE PLAN TESTING:

The inspection and testing of materials and finished articles to be incorporated in the work shall be made by bureaus, laboratories, or agencies approved by the Engineer of Record. The Contractor shall submit such samples, or such special or test pieces of materials as the Engineer of Record may require. The Contractor shall not incorporate any material or finished article into the work until the results of the inspections or tests are known and the Contractor has been notified by the Engineer of Record that the material or finished article is accepted. All materials must be of the specified quality and be equal to the approved sample if a sample has been submitted. Certified copies of all tests made shall be submitted to the Engineer of Record as well as to the county's designated site inspector. The County's designated site inspector must receive copies of all testing reports and certificates prior to the Engineer of Record requesting a final project inspection from the County.

- 2. LABORATORY CONTROL AND CERTIFICATES
- a. SPECIFICATIONS:
  - Sampling, testing, and laboratory methods shall be in accordance with the standard specifications of the AASHTO or ASTM. Where AASHTO or ASTM specifications are used, the reference shall be construed to be the most recent standard specifications or tentative specifications of the AASHTO or ASTM in force on the date of the test.
- b. TEST AND CERTIFICATES:
  - The Contractor shall engage an approved testing laboratory to provide the following tests and certifications signed by a registered engineer of the state of Florida. All technicians performing the tests shall be state certified for the testing performed. Additional tests that may be required by either the Engineer of Record or the County shall also be provided by the Contractor, and the following shall not be taken as a complete and exhaustive list of the Contractor's testing responsibilities.
- Soil analysis for structural fill material prior to installation.
- Proctor densities, moisture content, compacted field densities and Atterberg limits.

- 1. Minimum 28 day compressive strength/of 3000 PSI
- 2.  $w/c \le 0.45$ .
- 3. Final concrete surface shall be light broom finish.
- 4. Reinforced concrete with 1.5 lbs. per cubic yard, fibermesh 150 virgin homopolymer polypropylene multifilament fibers containing no olefin materials.
- 5. Sub-base: 6" depth compacted and tested to 98% grade density based on AASHTO-T-180 modified protector test and shall be stabilized to a minimum L.B.R.40.
- 6. Saw cut joints, ½" deep@ 5ft. intervals.
- 7. Flush curb shall be 8" inch width by 12" inch depth concrete.
- 8. Flush curb finished grade shall match adjacent pavement grade
- 9. For all curb types, provide  $\frac{1}{8}$ "  $\frac{1}{4}$ " contraction joints at 10' centers (max.). Contractions joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb, expansion joints shall be located in accordance with Section 520 of the Standard Specifications.
- 10. End of Type "D" Curb shall transition from full to zero heights in 2½
- 11. For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, performed joint filler and joint seal are required between curbs and concrete pavement 12. Depth of sawcut shall be minimum of  $3\frac{1}{2}$ " (Type "D" curb) and 4" (flush curb).

# **PAVING AND STRIPING:**

1. Furnished flexible pavement meeting the requirements of asphalt pavement detail sheet △(C-02) and Section 5.3.1 of the Gainesville City Of Engineering Design and Construction

- 2. Pavement markings shall be installed in accordance with Section 5.9 of the City Of Gainesville Engineering Design and Construction Manual.
- 3. Furnish painted markings with materials and methods meeting the requirements of Section 710 of the FDOT Standards Specifications for Road and Bridge Construction (Latest Edition).
- 4. In addition to the markings depicted on the architectural plans, provide the following pavement
- A) Non-ADA Parking Stalls: 6" inch width white stripe for 20' ft. length of stall, both sides of stall per civil plans.
- B) ADA Parking Stalls: Refer to ADA parking detail sheet C-06
- C) 24" inch width white stop bar per civil plans.

#### **WATER SERVICE:**

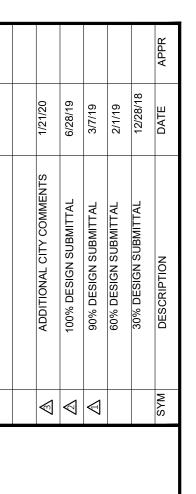
- 1. Locations of potable water and other underground utility lines and fittings are approximate as depicted on the civil plans. The Contractor is responsible for requesting all needed utility locates from Sunshine 811, Gainesville Regional Utilities, and other underground utility service providers with facilities within or adjacent to the project prior to starting any excavation or demolition activity. The Contractor shall be solely responsible for any damage to underground utilities that have been located, and any damage to underground utilities that occurs prior to field locates being performed.
- 2. All potable water connections and service components shall be constructed in accordance with City of Gainesville and Gainesville Regional Utilities (GRU) Standards, specifications, details and procedures, utilizing only components, hardware and products approved by the City of Gainesville and GRU.
- 3. The Contractor shall be responsible for determining if GRU staff must be present to observe critical stages of potable water service construction, or to perform connections to City Water Service. The Contractor shall be responsible for providing a sufficient notification period to GRU and the Project Engineer to permit scheduling of observation or connection duties. No additional contract time shall be approved if this notification is not given, and any work performed without required observation shall be rejected and replaced by the Contractor at the Contractor's expense.
- 4. The Contractor shall perform all required pressure, bacteriological and other testing as required by the city, GRU, other local and state Regulatory Agencies, and the Project Engineer. These testing results shall be submitted to the City Project Manager and Project Engineer prior to project close-out, and must be available for inspection at any time at the request of the City, GRU, Regulatory Agencies and the Project Engineer.

#### GAINESVILLE REGIONAL UTILITIES (GRU) - UTILITY CONSTRUCTION NOTES

- 1. Utility permits are required by the City Of Gainesville for construction of potable water
- 2. The utility plan and plat shows all Public Utility Easements (PUE's) in a metes and bounds format. Upon GRU'S approval of plans for developments not being platted, Owner may choose to grant the metes and bounds easements as shown, or a blanket easement over the entire property, provided facilities are installed within the prescribed distances as shown on the utility plans and in accordance with the Utility Separation Requirements Table in Appendix C of GRU W/WW/RCW Design Standards.
- 3. All construction materials and methods for potable water, wastewater, and reclaimed water system shall be in conformance with GRU's most recent Potable Water, Wastewater, & Reclaimed Water System Design Standards, Construction Details, Construction Standards, and Approved Materials Manual.
- 4. Potable Water and Wastewater mains shall maintain a minimum 10 feet horizontal and 1.5 foot vertical separation.
- 5. A minimum horizontal separation of 10 feet for potable water mains, wastewater force mains, and reclaimed water mains, and 15 feet for gravity wastewater mains shall be provided and maintained from, buildings, transformers, and all permanent structures. Service laterals require 5 feet less clearance for each of the utilities; provided that water service laterals are installed inside 3" sleeves. Separation from trees in reduced to 7.5' for pressurized mains and services and 10' (minimum) for gravity mains and services. (See Appendix C of GRU's Design Standards and Construction Details for Potable Water, Wastewater, and Reclaimed Water -Horizontal Separation Distances for Parallel and Perpendicular Clearance from Other Objects
- 6. Potable water services shall be provided to each lot, building or parcel requiring a separate water meter. For commercial, multifamily, and institutional developments, the Developer shall be responsible for installing potable water services and Yoke Assembly Package up to and including the meter yoke, box (installed at final grade) and associated appurtenances, for meters 1" and smaller (see GRU W/WW/RCW Construction Detail W - 8.0), with a one-year
- 7. 2" valves shall be GRU approved cast iron, resilient seat gate valves with standard 2"
- operating nut, threaded with brass nipple between the valve and tapping saddle or tapped tee. 8. Water mains 4" in diameter and greater, placed under roadways, shall be cement lined ductile iron pipe (CLDIP) extending 5 feet pas the back of curb (3 feet within City of Gainesville limits). Tracer wire installed on PVC water mains shall continue across the CLDIP sections.

9. 1" or 2" water service crossings located under roadways shall be encased in 3" SCH 40 PVC

- extending 5' past the back of curb (3 feet inside City of Gainesville limits) 10. Anchor tees, anchor couplings (solid x swivel), and anchor bends (swivel x swivel) shall be used on all fire hydrant assemblies.
- 11. All pressurized main fittings and valves shall be mechanical joint with restrained joint glands; a sufficient length of the push-on pipe connected to the fittings shall be mechanically restrained to provide to provide reaction as specified on the Restrained Joint Standard in the Construction Details (W - 2.8 & 2.9, RCW - 2.8 & 2.9, and WW - 2.4 & 2.5). Calculations for required restraint length must be provided if the specified restraint length, due to soil type or depth of cover, differs from those provided on these details. Retrained length must be indicated on the
- 12. All sanitary wastewater service laterals shall be min. 4" diameter PVC (SDR 26 pipe and fittings) at 1.00% min. slope unless otherwise labeled.
- 13. Wastewater cleanout covers located within pavement and sidewalks shall be rated for traffic 14. Manholes which are not installed under pavement shall have a rim elevation at least 6" above
- finished grade, and a 10:1 sodded slope down to finished grade. 15. The finished floor elevations of buildings shall be a minimum of 6" above the lowest upstream manhole top. If this is infeasible, a wastewater service lateral backwater valve with sewer relief
- valve is required on the customer side of the cleanout. 16. When a potable or reclaimed water main, or a waterwaste force main is routed within 10 ft. of an electric transformer, a 20 ft. length of CLDIP shall be centered on the transformer with mechanical restraint at each end. No fittings, pipe joints, or valves shall occur within 10 ft. of the nearest edge of the transformer. A minimum clearance of 3' shall be maintained between the main and the transformer.





Ph. 904.825.6747 www.halback.cor SUPERVISOR

RAWN BY: HECKED BY:

PROJECT MANAGER:

APPROVED

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NOTE

GENERAL

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> SIZE: RIME PROJECT NO.: OMC PROJECT NO.: 19-145-01

RAWING NO.: C-10

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	ф	WEATHERPROOF GFI DUI PROVIDE WITH LOCKABLI		ACLE, 20A, 120V, WITH GROUND.
				MERUNS. HASHMARKS REPRESENT EUTRAL). GROUND CONDUCTOR NOT
		ELECTRICAL PANELBOARI	D. SEE PANE	EL SCHEDULE FOR MORE INFORMATION.
	$\langle \times \times \rangle$	SPECIFIC KEYED NOTE.		
	XX $E-XXX$	DETAIL TAG. TOP FIELD FIELD INDICATES SHEET		SPECIFIC DETAIL NUMBER. BOTTOM L IS LOCATED.
		ABBRE	VIATION	NS
AFF AHJ GC GFCI	GENERAL CON	AVING JURISDICTION	NIC TBD TYP. UNO	NOT IN CONTRACT TO BE DETERMINED TYPICAL UNLESS NOTED OTHERWISE
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#### REVISION 1 SUMMARY 6/13/2019

GAINESVILLE REGIONAL UTILITIES

- 1. ADJUSTED FIXTURE CATALOG NUMBER TO CORRESPOND WITH GRU DATA.
- 2. ADDED NOTE TO FIXTURE SCHEDULE THAT POLES AND FIXTURES ARE GRU RENTAL UNITS.

WEATHER PROOF (& GFI)

#### REVISION 2 SUMMARY 11/8/2019

1. REISSUED DRAWING. NO CHANGES FOR REVISION 2

# PROJECT GENERAL NOTES

- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE ELECTRICAL PORTION OF THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO: TEMPORARY ELECTRIC SERVICE AND DISTRIBUTION FOR CONSTRUCTION PURPOSES; FEEDER DISTRIBUTION; TRENCH EXCAVATION, PUMPING, BACKFILLING AND COMPACTION FOR ALL UNDERGROUND ELECTRICAL WORK; ELECTRICAL SERVICE EQUIPMENT, PANELBOARD, AND RELATED FEEDER AND BRANCH CIRCUITS; ELECTRICAL DISCONNECTS, DEVICES, BOXES, SWITCHES; AND COORDINATION WITH OTHER CONTRACTORS, THE LANDSCAPE ARCHITECT AND OWNER.
- 2. FOR THE PURPOSES OF THIS CONTRACT, THE TERM "PROVIDE" SHALL MEAN TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, AND SUPERVISION REQUIRED TO FURNISH AND INSTALL.
- 3. APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES, AND PAY FOR ALL FEES ASSOCIATED WITH THE ELECTRICAL PORTION OF THE PROJECT.
- 4. THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, NECA STANDARD OF INSTALLATION, AND FLORIDA BUILDING CODE, EDITIONS ADOPTED BY AHJ, SHALL ESTABLISH THE MINIMUM REQUIREMENTS FOR INSTALLATION, BUT IN ADDITION, ALL WORK SHALL ALSO COMPLY WITH OSHA, STATE, COUNTY, LOCAL OR MUNICIPAL CODE REQUIREMENTS AND THE RULES OF THE LOCAL ELECTRIC UTILITY. IN CASE OF CONFLICTS, CONFORM TO THE MORE STRINGENT REQUIREMENTS. IN CASES OF CONFLICTS BETWEEN THESE DESIGN DOCUMENTS AND REQUIREMENTS OF THE ABOVE CODES, CONTACT THE ENGINEER BEFORE PROCEEDING. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS FOR ELECTRICAL EQUIPMENT PER NEC 110.16
- 5. ALL MATERIALS USED IN THIS PROJECT SHALL BE NEW AND UNDERWRITERS' LABORATORIES (UL) LISTED AND LABELED, UNLESS OTHERWISE NOTED.
- 6. SUBMIT SHOP DRAWINGS, CATALOG SHEETS, OR OTHER DESCRIPTIVE DATA WITH SUFFICIENT INFORMATION TO ESTABLISH DESIGN, QUALITY AND PERFORMANCE. SUBMIT DATA FOR: METER SOCKET, PANELBOARD, CIRCUIT BREAKERS, WIRING DEVICES, WIRE, CONDUIT, AND SURGE PROTECTION DEVICE. PROVIDE SUBMITTALS AS A SINGLE PACKAGE.
- 7. USE ONLY COPPER BUILDING WIRE WITH TYPE THWN/THHN (DUAL RATED) OR XHHW INSULATION (GROUND WIRES MAY BE TYPE TW FOR CIRCUITS RATED 100A OR LESS OR TYPE THW FOR CIRCUITS OVER 100A). WIRE SHALL BE SIZED AND COLOR CODED PER THE NEC. CONDUCTORS FOR POWER AND LIGHTING CIRCUITS SMALLER THAN #12 AWG ARE NOT PERMITTED.
- 8. PVC CONDUIT SHALL ONLY BE USED IN THE GROUND OR CONCRETE SLAB AND SHALL BE SCHEDULE 40. ALL ELLS TURNING UP OUT OF THE EARTH OR CONCRETE SLAB SHALL BE ASPHALTUM OR PVC COATED RIGID GALVANIZED STEEL CONDUIT.
- 9. EXCEPT AS NOTED OTHERWISE, ALL ELECTRICAL DEVICE AND JUNCTION BOXES SHALL BE MADE OF GALVANIZED STEEL. BOXES FOR WEATHERPROOF AND WATERTIGHT APPLICATIONS OR IN CONCRETE SHALL BE MADE OF CAST METAL. PROVIDE PULLBOXES AND HANDHOLES AS NECESSARY FOR THE CIRCUITS SHOWN.
- 10. MOUNT RECEPTACLES 18" ABOVE GROUND UNLESS NOTED OTHERWISE. CONFORM TO ALL A.D.A. REQUIREMENTS.
- 11. NO MORE THAN 2 PHASE CONDUCTORS (ON ALTERNATING HOT LEGS) SHALL BE COMBINED IN ONE HOMERUN CONDUIT. PROVIDE A DEDICATED NEUTRAL FOR ALL CIRCUITS REQUIRING A NEUTRAL.
- 12. DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. REVIEW ALL PROJECT DRAWINGS AND COORDINATE WITH OTHER CONTRACTORS TO CONFIRM EXACT LOCATION FOR LIGHTING FIXTURES, ELECTRICAL DEVICES, WIRING AND EQUIPMENT AND AVOID INTERFERENCES BETWEEN RACEWAYS, PIPING, AND STRUCTURAL MEMBERS. RELOCATE EQUIPMENT AS NECESSARY TO MAINTAIN NEC WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS.
- 13. VISIT THE SITE AND EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS PROJECT BEFORE SUBMITTING BID, SO AS TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS, OR EQUIPMENT REQUIRED FOR DIFFICULTIES ENCOUNTERED WILL NOT BE ACCEPTED.
- 14. CONTRACTOR SHALL CONFORM WITH ALL OSHA AND NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REQUIREMENTS FOR ELECTRICAL SAFETY, INCLUDING PROPER LOCK-OUT / TAG-OUT PROCEDURES AND WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE). CONTRACTOR'S EMPLOYEES SHALL HAVE RECEIVED NFPA 70E ARC FLASH TRAINING.
- 15. PROVIDE EQUIPMENT NAMEPLATES FOR ALL EQUIPMENT, INCLUDING SERVICE EQUIPMENT AND PANELBOARD. NAMEPLATES SHALL BE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND. USE 1/8 INCH LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS AND 1/4 INCH LETTERS FOR GROUPED EQUIPMENT AND LOADS. LABEL DEDICATED OUTLETS WITH NAME OF LOAD, PANEL AND CIRCUIT NUMBER. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS FOR ELECTRICAL EQUIPMENT PER NEC 110.16. ALSO, PROVIDE LABEL WITH AVAILABLE FAULT CURRENT AND DATE FOR SERVICE EQUIPMENT PER THE NEC (6,944 SYMMETRICAL AMPS, DATE: 03/08/19).
- 16. THE ABOVE NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

		LIG	HTING FIX	TURI	E SCHE	DULE	- -	
MARK	MANUF.	CATALOG NUMBER	LAMPS NO TYPE	VOLT.	MOUNTING	WATTS	NOTES	DESCRIPTION / INSTALLATION
А		CD20SR45-GAL-3-120W-3K-120V-PTR-CP4323-RAL- 9005TX	LED, 3000K	120V	POLE	125 W		DECORATIVE 25" ROUND LED LUMINAIRE, DARK SKY COMPLIANT, INTEGRAL PHOTOCELL RECEPTACLE, BLACK FINISH
POLE	KIM LIGHTING	PRA306188-BL-P						30' TALL, ROUND NON—TAPERED ALUMINUM ANCHOR BASE POLE WITH BLACK FINISH

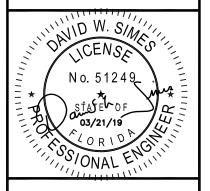
#### NOTE:

1. FIXTURES AND POLES WILL BE FURNISHED AS RENTAL PROPERTY BY GAINESVILLE REGIONAL UTILITIES (GRU). FIXTURES AND POLES WILL BE INSTALLED BY 'GRU'. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE BASE, AND CONDUITS FOR CIRCUITS TO POLES IN ACCORDANCE WITH GRU REQUIREMENTS.

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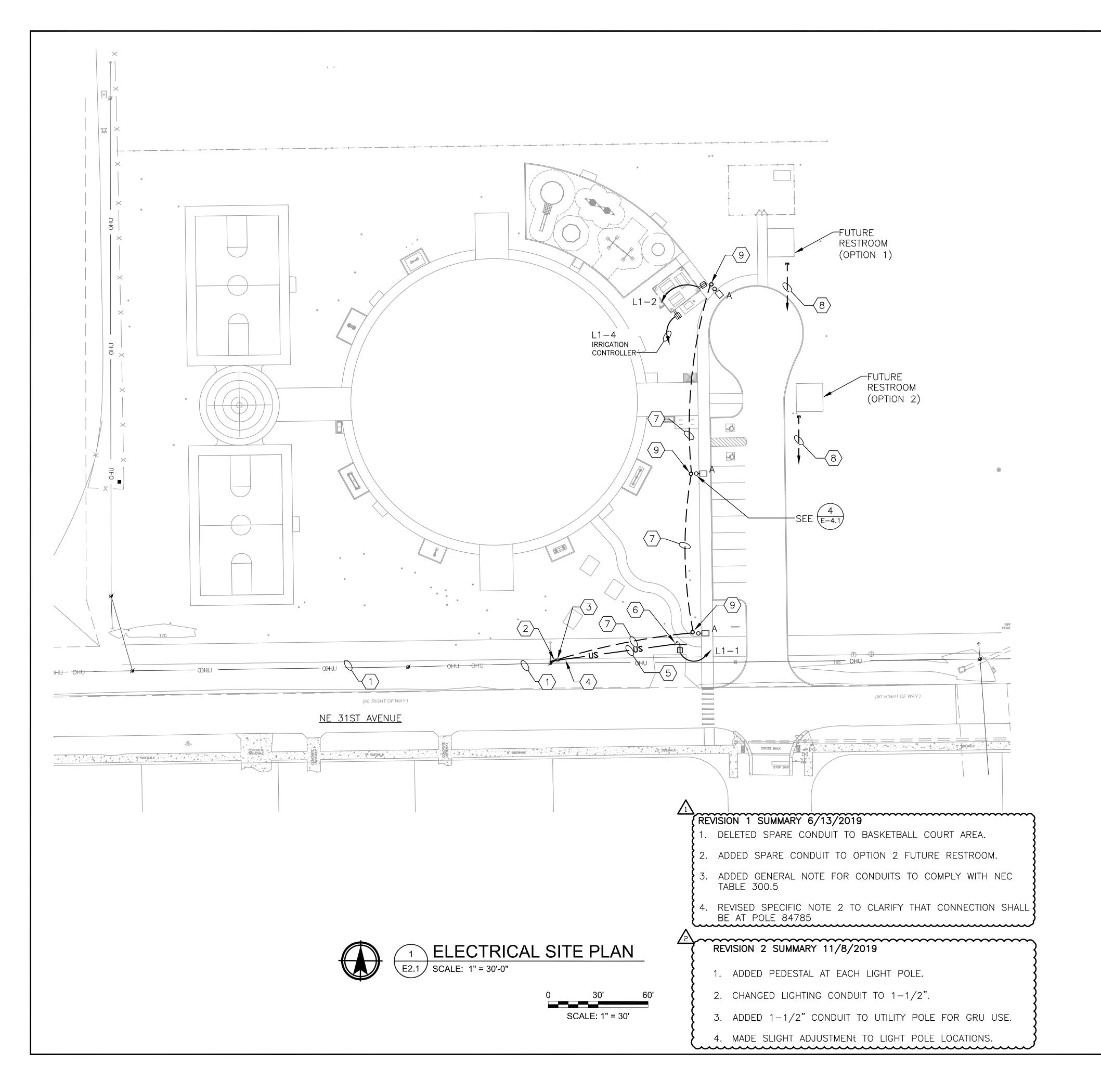
32627 **TRAILHEAD** F GAINESVILLE, S 00 ATWO AVENU ST 31 PARK NORTHEAST

PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

1710

DRAWING NO.: E-1.1

UNITY



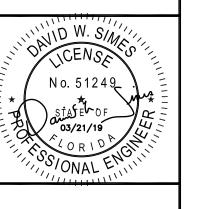
## **GENERAL NOTES:**

- 1. ROUTING OF UNDERGROUND CONDUITS SHOWN IS INTENDED TO BE DIAGRAMMATIC. HAND DIG AND ROUTE CONDUIT AS NECESSARY TO AVOID STRUCTURES, TREES, UNDERGROUND UTILITIES, ETC. PROVIDE PULLBOXES AS NECESSARY AND/OR REQUIRED TO AID IN PULLING CONDUCTORS.
- 2. ELECTRICAL SITE PLAN IS FOR ORIENTATION PURPOSES ONLY. SEE CIVIL SITE PLAN AND LANDSCAPING PLANS FOR LOCATIONS OF STRUCTURES, CURBING, PAVED AREAS, EXISTING UTILITIES, ETC. LOCATIONS SHOWN FOR EXTERIOR ELECTRICAL EQUIPMENT ARE ONLY APPROXIMATE AND TENTATIVE. CONFIRM EXACT LOCATION PER LANDSCAPE AND CIVIL PLANS. NOTE THAT LIGHTING DESIGN, INCLUDING FIXTURE SELECTION AND LOCATION AND ILLUMINATION LEVELS IS PROVIDED BY OTHERS. THE ELECTRICAL DRAWINGS ARE INTENDED TO SHOW ELECTRICAL DISTRIBUTION ONLY.
- 3. ALL DIRECT BURIED CONDUIT BURIAL DEPTHS SHALL COMPLY WITH NEC TABLE 300.5.
- 4. AFTER CONSTRUCTION. RETURN SURROUNDING AREA. INCLUDING GRASS, CURBS, AND PAVEMENT TO ORIGINAL CONDITIONS.
- IMPORTANT SAFETY NOTE: WORK IN THE PROXIMITY OF THE EXISTING OVERHEAD POWER LINES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH NATIONAL ELECTRICAL SAFETY CODE (NESC) AND UTILITY GUIDELINES FOR WORKING CLEARANCES AND SHALL BE COORDINATED WITH GRU.

#### SPECIFIC NOTES:

- EXISTING OVERHEAD PRIMARY.
- THE POINT OF CONNECTION SHALL BE AT THE BASE OF EXISTING GRU POLE NO. 84785. VERIFY EXACT POLE LOCATION.
- POLE MOUNTED TRANSFORMER AND SERVICE RISER PROVIDED BY
- PROVIDE SERVICE BOX PER GRU STANDARDS, WHICH IS CUSTOMER POINT OF SERVICE. CONTRACTOR SHALL INSTALL THE BOX IN ACCORDANCE WITH UTILITY RULES AND REGULATIONS.
- PROVIDE NEW 120/240V, SINGLE PHASE UNDERGROUND SECONDARY (US) FROM SERVICE BOX TO PEDESTAL MOUNTED SERVICE EQUIPMENT. PROVIDE WARNING TAPE 12" A MINIMUM OF 12" ABOVE CONDUIT PER NEC. SEE POWER RISER DIAGRAM, SHEET E-3.1, FOR MORE INFORMATION.
- PROVIDE PEDESTAL MOUNTED SERVICE EQUIPMENT AS INDICATED ON POWER RISER DIAGRAM ON SHEET E3.1 AND DETAIL 2, SHEET E-4.1. LOADCENTER SHALL BE SERVICE RATED WITH COPPER BUSSES, AIC RATING AS INDICATED (FULLY RATED, SERIES RATING IS NOT ALLOWED). PROVIDE LOCKABLE RAINTIGHT NEMA 3R ENCLOSURE AND TYPED PANEL SCHEDULE WITH LOCATIONS OF LOADS. COORDINATE WITH LANDSCAPE ARCHITECT TO PROVIDE LANDSCAPING TO HIDE PEDESTAL. MAINTAIN NEC WORKING SPACE.
- PROVIDE A 1-1/2" CONDUIT WITH PULL WIRE FOR INSTALLATION OF POWER CONDUCTORS BY GRU. CONDUITS SHALL COMPLY WITH GRU REQUIREMENTS AND SHALL BE INSPECTED BY GRU PRIOR TO COVER UP.
- PROVIDE A 1 1/2" CONDUIT TO LOAD CENTER 'L1' FOR FUTURE. CAP AND MARK TERMINAL LOCATION.
- PROVIDE A NOMINAL 10" DIAMETER FLUSH GRADE MOUNTED PULL BOX, PENCELL PLASTICS MODEL PE-10HDX, PER GRU REQUIREMENTS AND PROVIDE 1-1/2" CONDUIT FROM PEDESTAL TO POLE BASE PER GRU REQUIREMENTS.

<b>4</b>	90% DESIGN SUBMITTAL	11/8/19
<b>4</b>	90% DESIGN SUBMITTAL	6/13/19
	60% DESIGN SUBMITTAL	2/1/19
	30% DESIGN SUBMITTAL	12/28/18
SYM	DESCRIPTION	DATE



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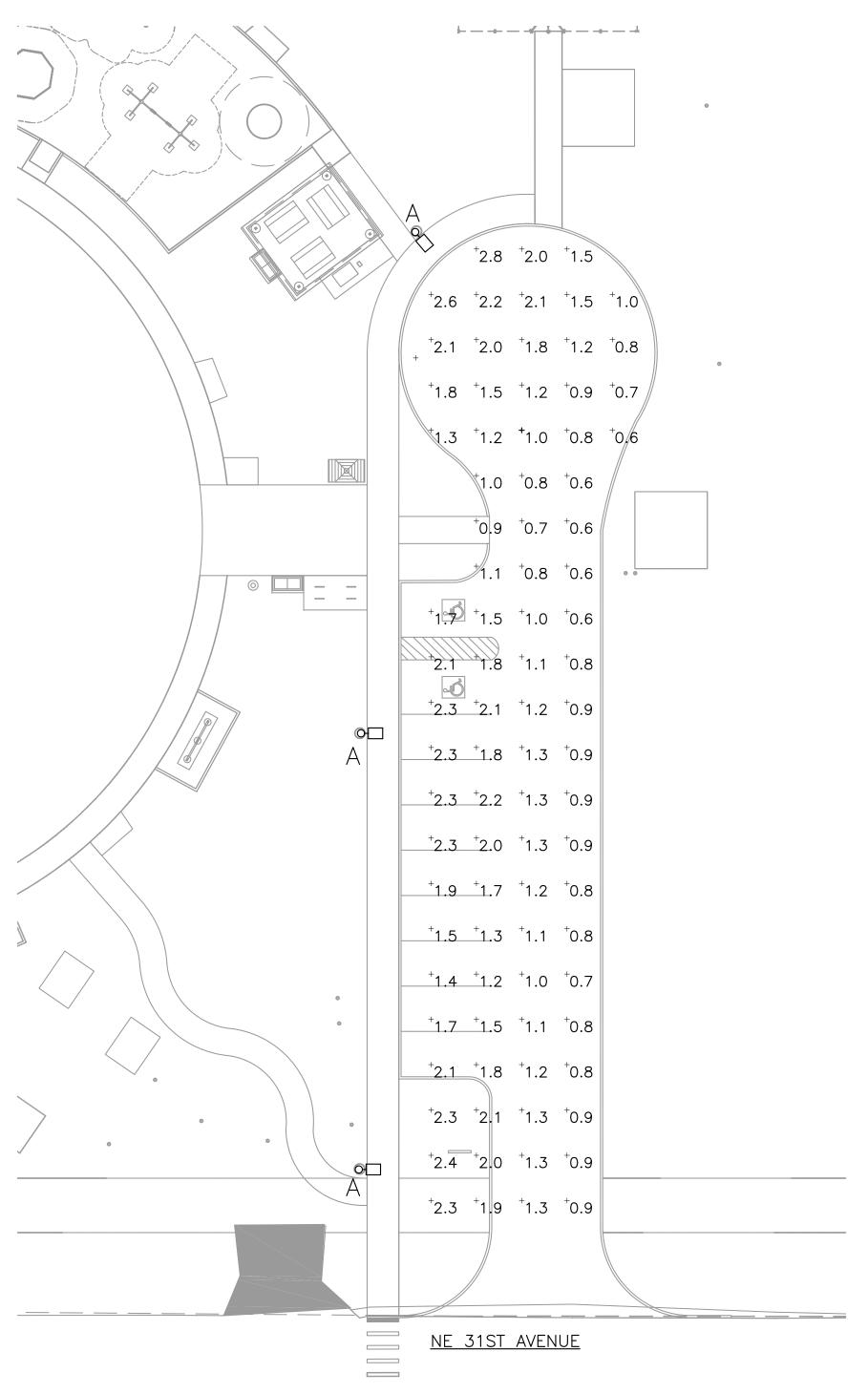
32627 TRAILHEAD 긥 GAINESVILLE, WOODS AVENUE, FLA 31ST PARK 1710 NORTHEAST UNITY

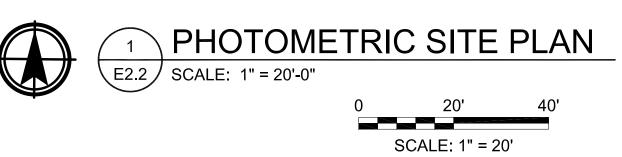
SIZE: ANSI D PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

E-2.1

DRAWING NO.:

PERMIT SET





#### REVISION 1 SUMMARY 6/13/2019

- 1. REVISED CALCULATION POINT SPACING FOR LEGIBILITY. REVISED CALCULATIONS FOR MINOR FIXTURE ADJUSTMENTS
- 2. REVISED LUMINAIRE SCHEDULE TO INCLUDE CORRECT MODEL NUMBER.
- 3. REVISED CALCULATION SUMMARIES.
- 4. ADDED LIGHTING DESCRIPTION.

#### REVISION 2 SUMMARY 11/8/2019

1. REVISED CALCULATIONS FOR MINOR FIXTURE ADJUSTMENTS

LUMINAIRE	SCHEDULE			
SYMBOL	QTY.	LABEL	ARRANGEMENT	DESCRIPTION
어	3	CD20SR45-GAL-3-120W-3K-120V -PTR-CP4323-RAL-9005TX	SINGLE	LED CUT-OFF LUMINAIRE

CALCULATION SUM	MMARY						
LABEL	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG./MIN.	MAX./MIN.
LIGHTING CALCS	ILLUMINANCE	FC	1.4	2.6	0.6	2.3:1	4.3:1

## LIGHTING DESCRIPTION

THE PROJECT INCLUDES THE INSTALLATION OF (3) LED FULL CUT-OFF LUMINAIRES EACH MOUNTED ON A 30' TALL ALUMINUM ANCHOR BASE TYPE POLE. THE POLES AND LUMINAIRES WILL BE RENTED FROM GRU.

THE PARKING LOT ILLUMINATION IS DESIGNED FOR COMPLIANCE WITH ORDINANCE 120023 AND PROVIDES A MINIMUM MAINTAINED FOOTCANDLE LEVEL THAT EXCEEDS 0.5 FOOTCANDLES, AN AVERAGE FOOTCANDLE LEVEL LESS THAN 2.5, A UNIFORMITY RATIO LESS THAN 5:1, AND A MAXIMUM UNIFORMITY LEVEL LESS THAN 15:1.

THE LUMINAIRES WILL BE ENERGIZED BY THE PHOTOCELL THAT IS INTEGRAL TO THE FIXTURES AND A TIMECLOCK WILL BE USED TO DE-ENERGIZE THE LUMINAIRES WHEN THE PARK CLOSES.

CONSULTING ENGINEERS
7411 Fullerton Street, Suite 250
Jacksonville, FL 32256
Ph. (904) 260-3031 Fax: (904) 260-927

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	30% DESIGN SUBMITTAL	12/28

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No. 51249
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SUPERVISOR

APPROVED

DRAWN BY: SCM
CHECKED BY: DWS
PROJECT MANAGER: JM

+ FLATWOODS TRAILHEAD 31ST AVENUE, GAINESVILLE, FL 32627

SITE

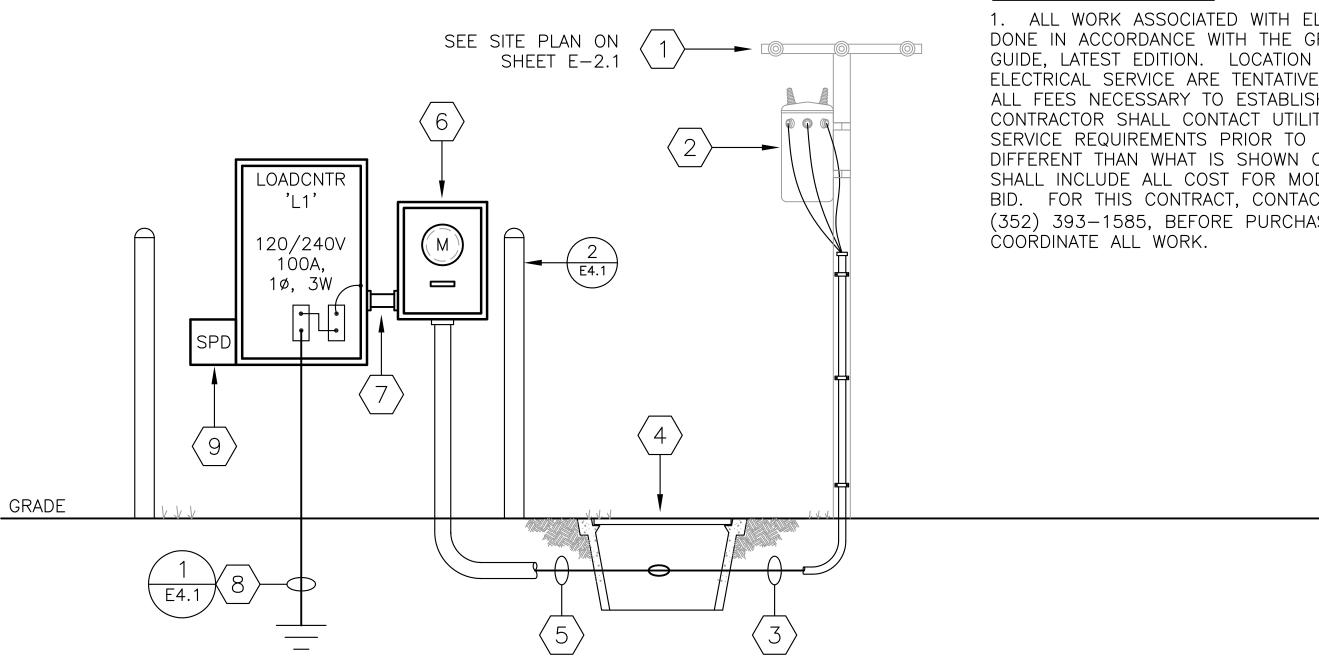
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PRIME PROJECT NO.: 18.39.0

1710 NORTHEAST

**UNITY PARK** 

T SET DRAWING NO.:
E-2.2

PERMIT SET



# POWER RISER DIAGRAM SCALE: NTS

ED	BY:	UTIL	XFM	₹			TYPE	SURF	ACE N	NOON	T, NEMA 3R	BUS RA					
1 (	ΊΑ	) C	FN	TFI	R <b>-</b>	11			100		FRAME: 100		TYPE:			<u>N</u>	
_`	<i>)</i>			. –.		<b>–</b> '	VOL	TAGE:	120/	240	VOLTS 1 PH, 3 WIRE	MINIMUM	AIC:	10,0	00		
	DEVICE				BR	ANCH CIRCUIT		PHASE	LOA	)	BRANCH CIRC	UIT				DEVIC	-
NO.	AMPS TRIP	POLES	WIRE	GRND	COND.	SERVING	A		VA) A	В	SERVING	COND.	GRND	WIRE	POLES	AMPS TRIP	NO.
1	20	1	12	12	1/2	REC EQUIP. RACK	0.2		0.2		REC PAVILION	3/4	10	10	1	20	2
3	20	1				SPARE				0.2	REC IRRIGATION CONTROL	3/4	10	10	1	20	4
5	20	1				SPARE					SPARE				1	20	6
7	20	1				SPARE					SPARE				1	20	8
9	20	1				SPARE					SPARE				1	20	10
11	20	1				SPARE					SPARE				1	20	12
13	20	1				SPARE					SPACE				1		14
15	20	1				SPARE					SPACE				1		16
17		1				SPACE					SPACE				1		18
19		1				SPACE					SPACE				1		20
21		1				SPACE					SPACE				1		22
23		1				SPACE					SPACE				1		24
25		1				SPACE					SPACE				1		26
27		1				SPACE					SPD				2	30	28
29		1				SPACE					"						30
ANE	L UL	LISTI	ED F	OR SI	ERVICE EI	NTRANCE APPLICATION	0.2	0.0	0.2	0.2	TOTAL CONNECTED LOAD:	0.6	KVA			•	
											TOTAL DEMAND LOAD:	0.6	KVA				

#### **GENERAL NOTES:**

**SPECIFIC NOTES:** 

ALL WORK ASSOCIATED WITH ELECTRIC SERVICE SHALL BE DONE IN ACCORDANCE WITH THE GRU ENERGY DELIVERY SERVICE GUIDE, LATEST EDITION. LOCATION AND CONFIGURATION OF ELECTRICAL SERVICE ARE TENTATIVE. THE CONTRACTOR SHALL PAY ALL FEES NECESSARY TO ESTABLISH ELECTRICAL SERVICE. CONTRACTOR SHALL CONTACT UTILITY COMPANY ENGINEER FOR SERVICE REQUIREMENTS PRIOR TO BID. IF REQUIREMENTS ARE DIFFERENT THAN WHAT IS SHOWN ON DRAWINGS, CONTRACTOR SHALL INCLUDE ALL COST FOR MODIFICATIONS AS PART OF BASE BID. FOR THIS CONTRACT, CONTACT MS. MELODY WILLIAMS, GRU, (352) 393-1585, BEFORE PURCHASING ANY MATERIALS AND TO

GRADE

EXISTING OVERHEAD PRIMARY (OHP). SEE ELECTRICAL SITE PLAN ON

RISER POLE WITH POLE-MOUNTED TRANSFORMER CONFIGURED TO

CONDUIT AND SECONDARY FEEDER FROM POLE TO SERVICE BOX

(PROVIDED BY UTILITY). SEE ELECTRICAL SITE PLAN ON SHEET

POINT OF SERVICE. CONTRACTOR SHALL INSTALL THE BOX IN

2" CONDUIT. UTILITY WILL MAKE FINAL CONNECTIONS AT THE

(WITH BYPASS) IN NEMA 3R ENCLOSURE. PROPERLY GROUND METER SOCKET PER NEC SECTION 250 AND LOCAL STANDARDS

PROVIDE 3-#1 AWG CONDUCTORS AND #6 AWG GROUND IN A

PROVIDE #4 AWG COPPER GROUNDING ELECTRODE CONDUCTOR. BOND TO GROUND ROD AND ALL OTHER AVAILABLE GROUND

PROVIDE A SURGE SUPPRESSION DEVICE (SPD) IN A NEMA 3R

INDICATION AND SHALL MEET UL 1449, CURRENT EDITION.

ELECTRODES, PER DETAIL 1, SHEET E-4.1, NEC SECTION 250 AND

ENCLOSURE. THE SPD SHALL BE RATED FOR AT LEAST 80KA, PER PHASE, SURGE CURRENT THE SPD SHALL HAVE VISUAL FAULT

ACCORDANCE WITH UTILITY RULES AND REGULATIONS.

PROVIDE SERVICE BOX PER GRU STANDARDS, WHICH IS CUSTOMER

SERVICE BOX TO SERVICE EQUIPMENT: 3 #1 AWG CONDUCTORS IN

SERVICE BOX. SEE ELECTRICAL SITE PLAN ON SHEET E-2.1 FOR

PROVIDE UTILITY APPROVED 200A, 1 PHASE, 3 WIRE METER SOCKET

PROVIDE 120/240V, SINGLE PHASE, THREE WIRE SERVICE.

SHEET E-2.1 FOR MORE INFORMATION.

CONFIRM EXACT LOCATION WITH UTILITY.

È-2.1 FOR MORE INFORMATION.

MORE INFORMATION.

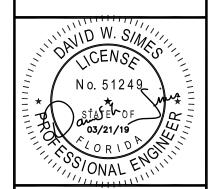
1 1/2" CONDUIT NIPPLE.

LOCAL CODES.

Rosch, ENGINEERS Simes & J CONSULTING E 7411 Fullerton Stre Jacksonville, FL 32

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·	30% DESIGN SUBMITTAL	12/28/
SYM	DESCRIPTION	DATE



# Marquis Latimer + Halback, Inc. 34 Cordova Street, Suite A St. Augustine, FL 32084

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DRAWN BY:

PROJECT MANAGER:

32627 TRAILHEAD GAINESVILLE,

**FLATWOODS** 31ST PARK 1710 NORTHEAST UNITY

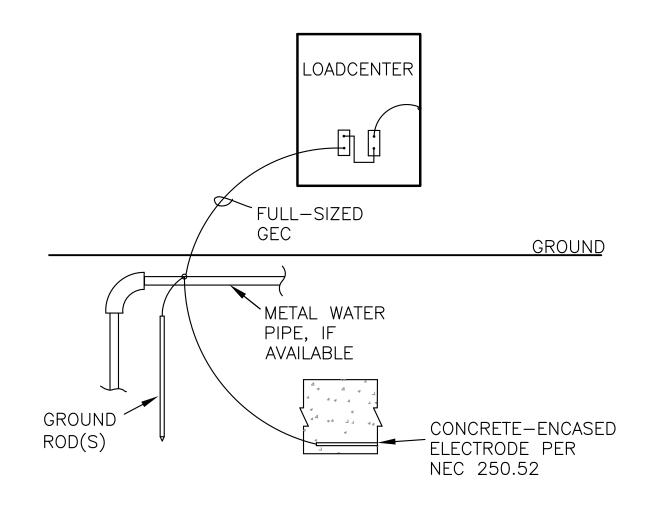
REVISION 2 SUMMARY 11/8/2019

1. DELETED EXTERIOR LIGHTING CIRCUIT FROM PANEL. FIXTURES WILL BE SERVED AHEAD OF METER.

> PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

> > E-3.1

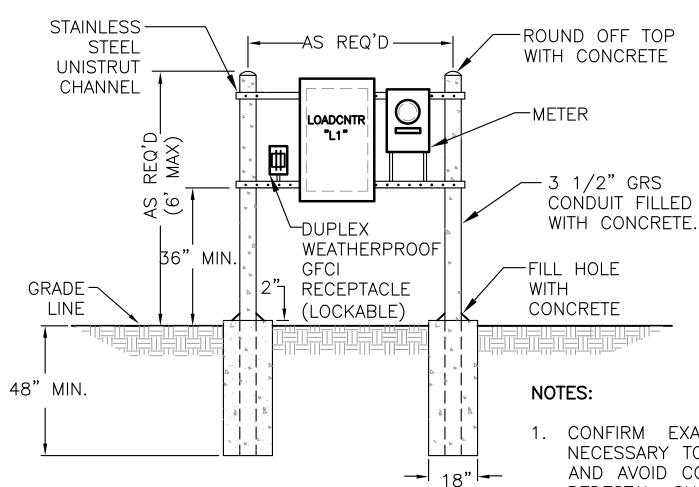
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NOTE: BOND & GROUND ELECTRICAL SYSTEM PER NEC SECTION 250 AND ALL LOCAL CODES AND STATUTES. TEST GROUND TO ENSURE A MAXIMUM RESISTANCE TO GROUND OF 10 OHMS. ADD ADDITIONAL GROUND RODS AS NECESSARY TO MEET THIS REQUIREMENT.

# GENERAL GROUNDING DETAIL SCALE: NTS

E4.1



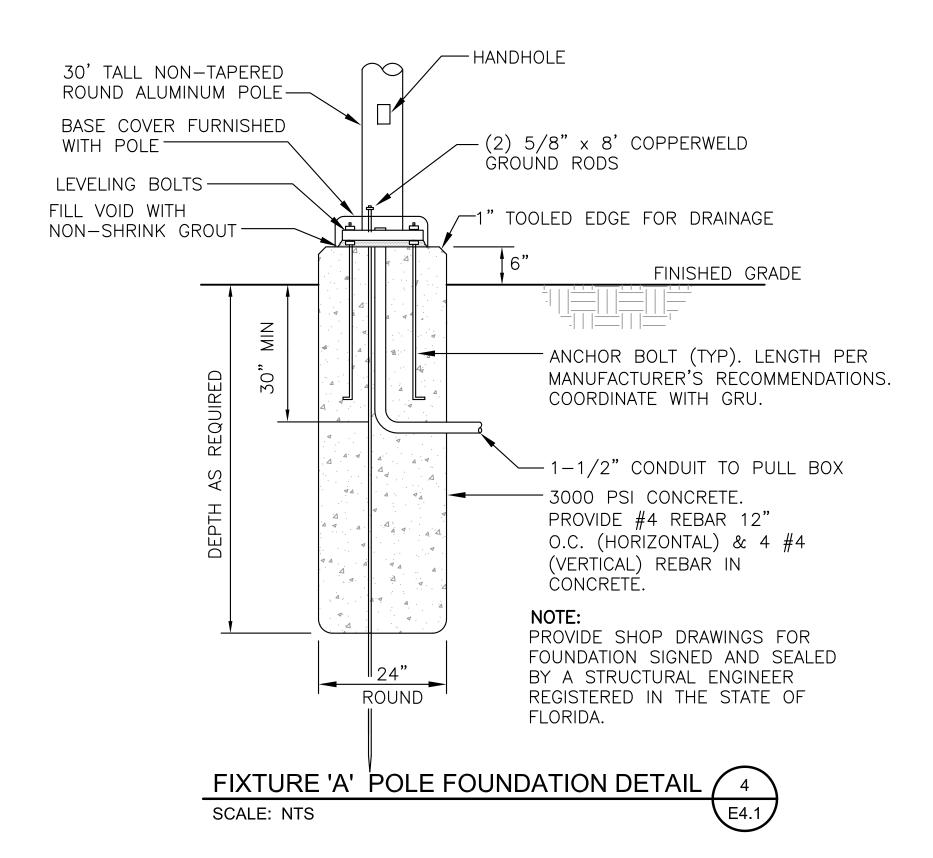
FRONT SIDE

1. CONFIRM EXACT LOCATION. RELOCATE AS NECESSARY TO MAINTAIN NEC WORKING SPACE AND AVOID CONTAINMENT PONDS. HEIGHT OF PEDESTAL SHALL ENSURE THAT BOTTOM OF PANEL IS ABOVE 100 YEAR FLOOD PLAIN.

2. CONFIRM LOCATION OF UNDERGROUND UTILITIES BEFORE DIGGING.

#### PEDESTAL DETAIL SCALE: NTS E4.1

ROUND

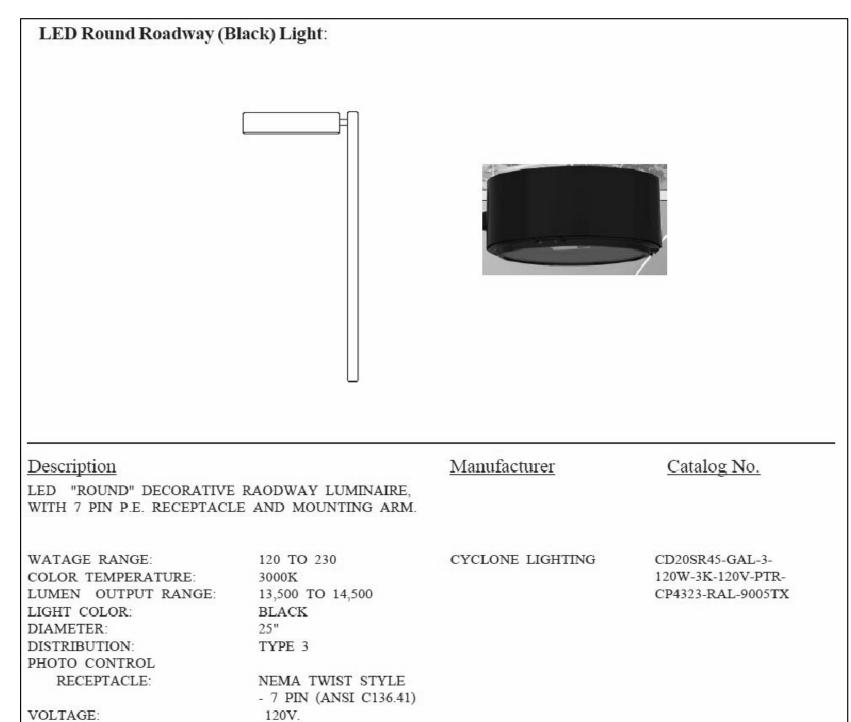




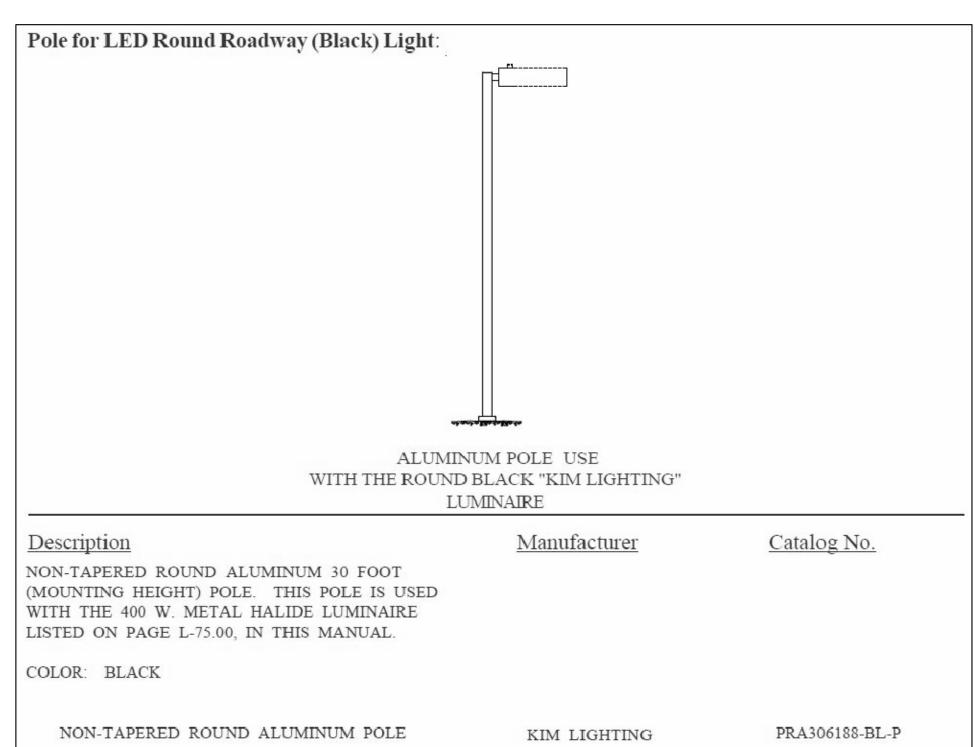
1. ADDED DETAILS FOR GRU RENTAL FIXTURE AND RENTAL POLE.

#### REVISION 2 SUMMARY 11/8/2019

1. DELETED EXTERIOR LIGHTING CONTROLS.



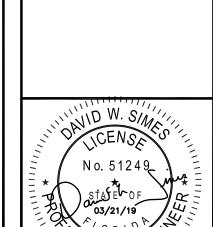






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PROJECT MANAGER: JM 32627

FLATWOODS TRAILHEAD GAINESVILLE, F AVENUE,

31ST **UNITY PARK** 1710 NORTHEAST

PRIME PROJECT NO.: ML+H PROJECT NO.: 18.39.0

DRAWING NO.: E-4.1