

FOREST PARK

GAINESVILLE, FLORIDA

HARDSCAPE, LANDSCAPE, & IRRIGATION

100% CONSTRUCTION DOCUMENTS FOR REVIEW

MARCH 21, 2022

Prepared by:



11801 Research Drive
Alachua, FL 32615
352.331.1976 tel

Certificate of Authorization No. LC26000564

Table of Contents

COVER PAGE	
L-101	SITE PLAN
L-201	LAYOUT & HARDSCAPE PLAN
L-202	LAYOUT & HARDSCAPE PLAN
L-203	LAYOUT & HARDSCAPE PLAN
L-204	LAYOUT & HARDSCAPE PLAN
L-205	LAYOUT & HARDSCAPE PLAN
L-206	LAYOUT & HARDSCAPE PLAN
L-207	HARDSCAPE DETAILS
L-208	HARDSCAPE DETAILS & FINISH SCHEDULE
L-301	LANDSCAPE SCHEDULE, NOTES, & DETAILS
L-302	LANDSCAPE PLAN
L-303	LANDSCAPE PLAN
L-304	LANDSCAPE PLAN
L-305	LANDSCAPE PLAN
L-306	LANDSCAPE PLAN
L-307	LANDSCAPE PLAN
L-308	LANDSCAPE PLAN
L-309	LANDSCAPE PLAN
L-310	LANDSCAPE SPECIFICATIONS
L-401	IRRIGATION SCHEDULE, DETAILS, & SPECIFICATIONS
L-402	IRRIGATION PLAN
L-403	IRRIGATION PLAN
L-404	IRRIGATION PLAN
L-405	IRRIGATION PLAN
L-406	IRRIGATION PLAN
L-407	IRRIGATION PLAN
L-408	IRRIGATION PLAN
L-409	IRRIGATION PLAN

A
B
C
D

1
2
3
4

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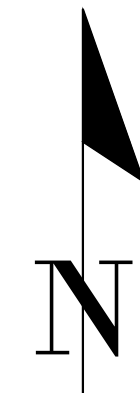
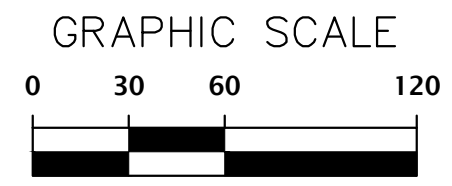
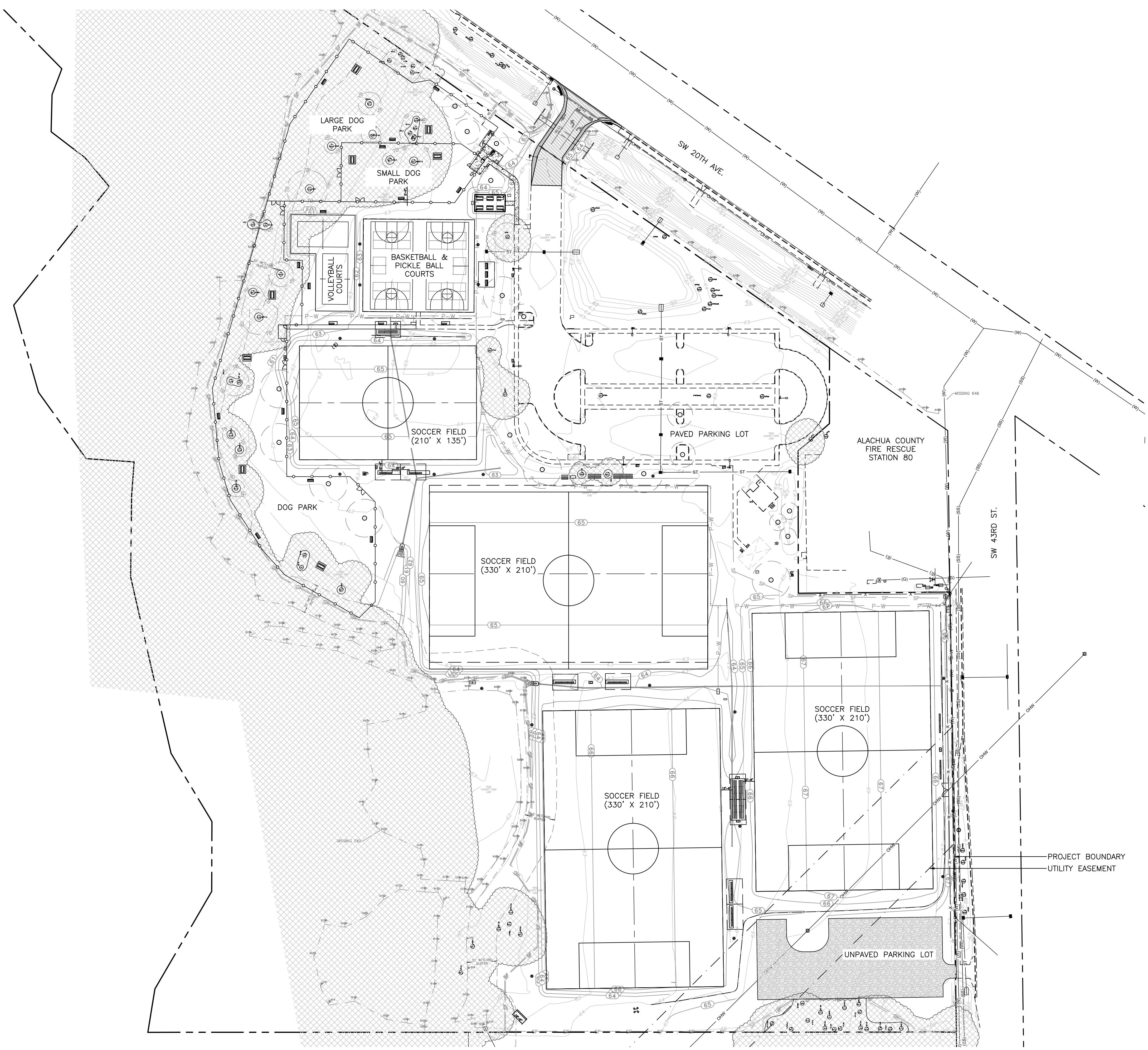
2020/03/15 100% CD'S FOR REVIEW

CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: SITE PLAN
PROJECT NUMBER: 21-0219

PROGRESS SET
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SHEET NO: L-101



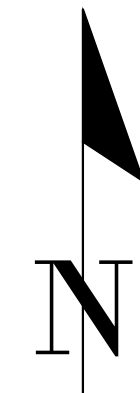
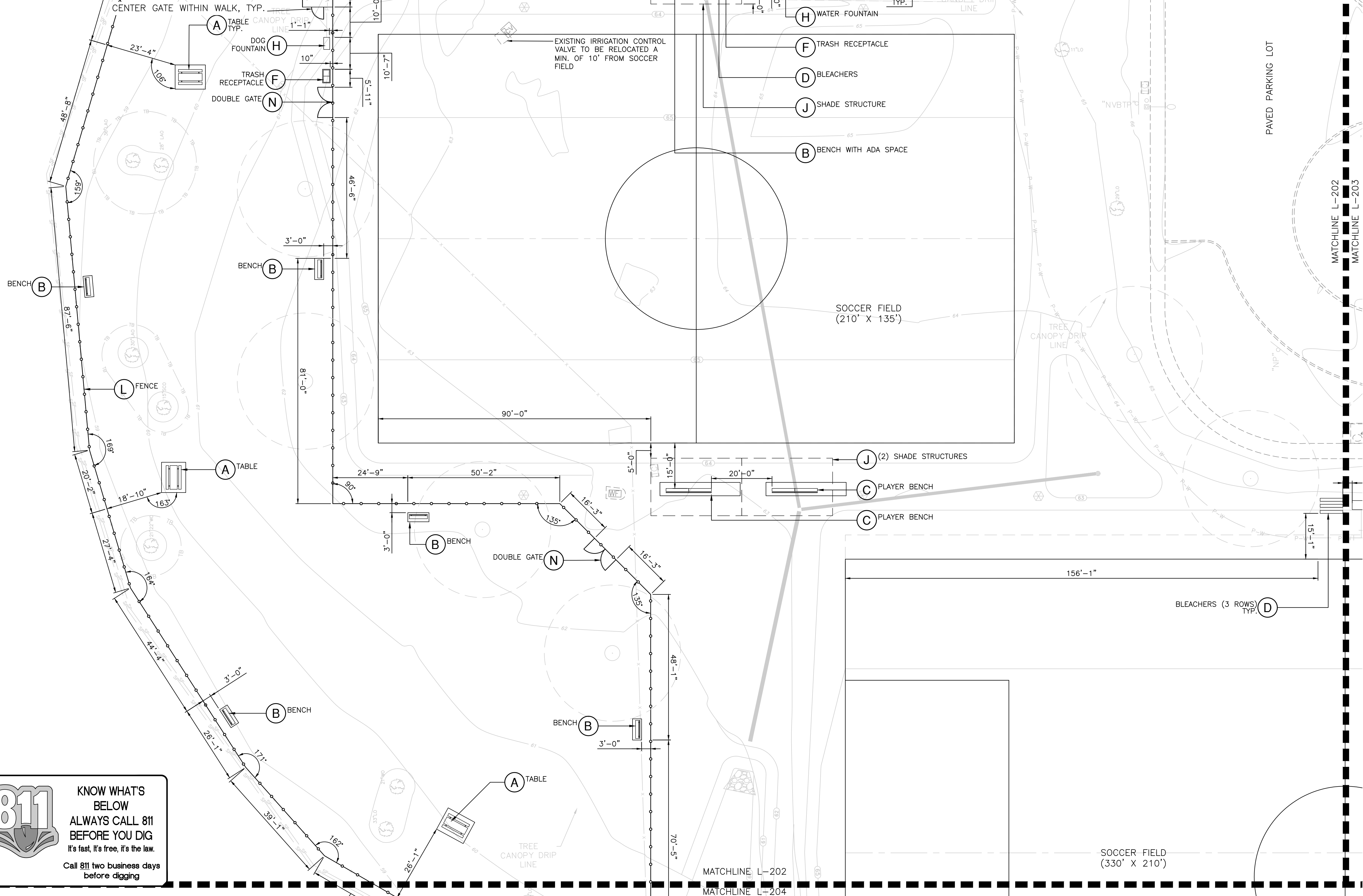
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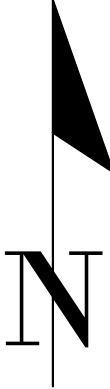
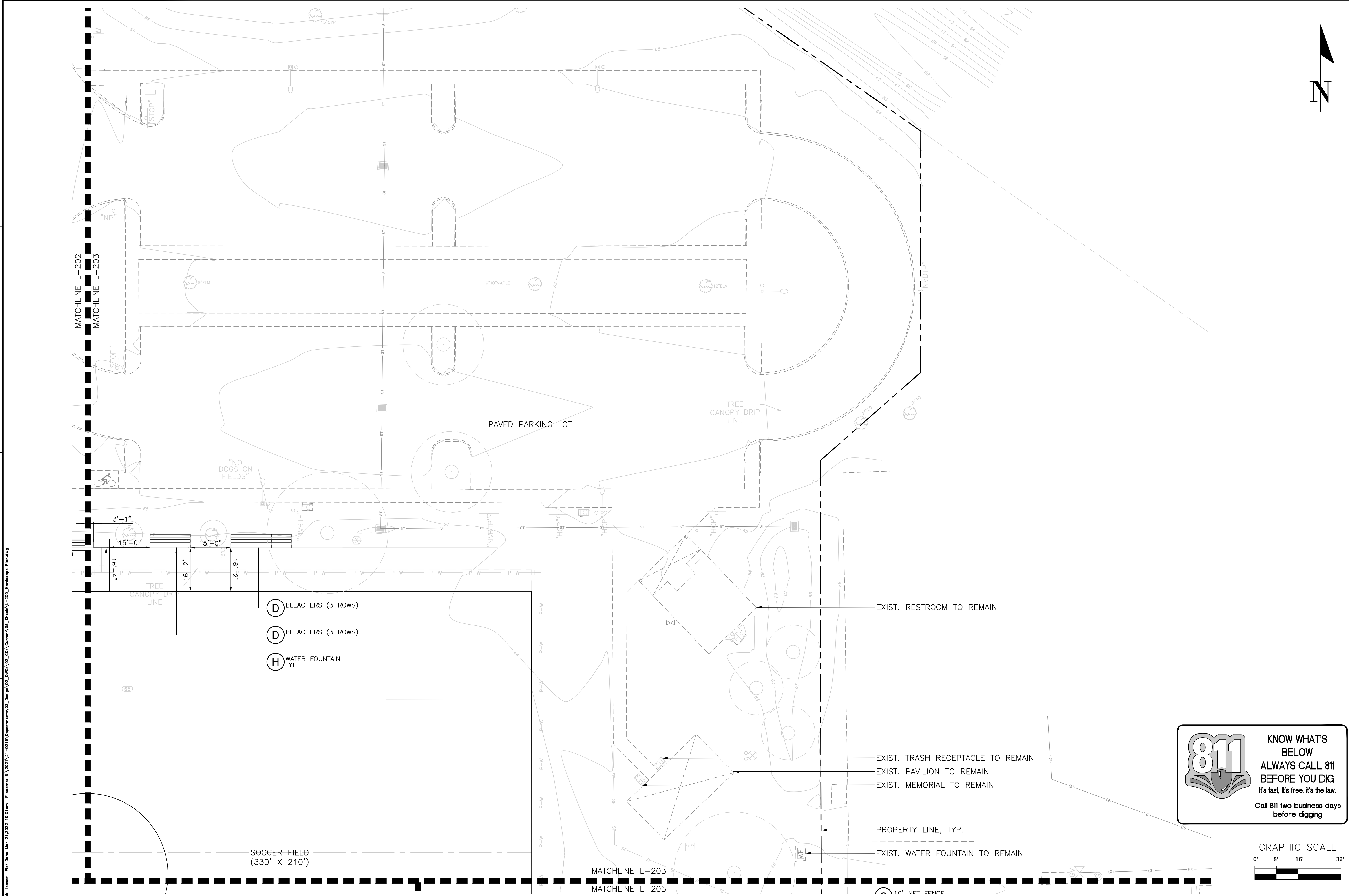
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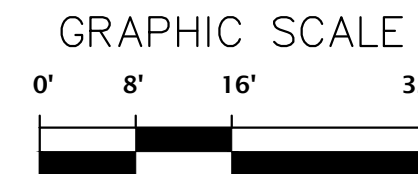
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CONSTRUCTION/REV. RELEASE		2023/21-000% CD'S FOR REVIEW	
CLIENT:	CITY OF GAINESVILLE	PROJECT:	FOREST PARK WSP
DESIGNER:	JMS	QUALITY CONTROL:	CT
PROJECT NUMBER:	21-0219	SHEET TITLE:	LAYOUT & HARDSCAPE PLAN
PROGRESS SET NOT FOR CONSTRUCTION		SHEET NUMBER: L-202	



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CONSTRUCTION/BD RELEASE

220321 100% CD'S FOR REVIEW

CITY OF GAINESVILLE

PROJECT: FOREST PARK VSP

QUALITY CONTROL: CT

SHEET TITLE: LAYOUT & HARDSCAPE PLAN

PROJECT NUMBER: 21-0219

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NOT FOR CONSTRUCTION

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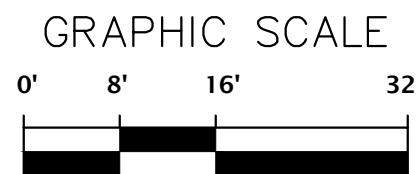


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SHADE STRUCTURE (J)
PLAYER BENCH (C)

PLAYER BENCH (C)
SHADE STRUCTURE (J)
TRASH RECEPTACLE (F)

TREE
CANOPY DRIP
LINE



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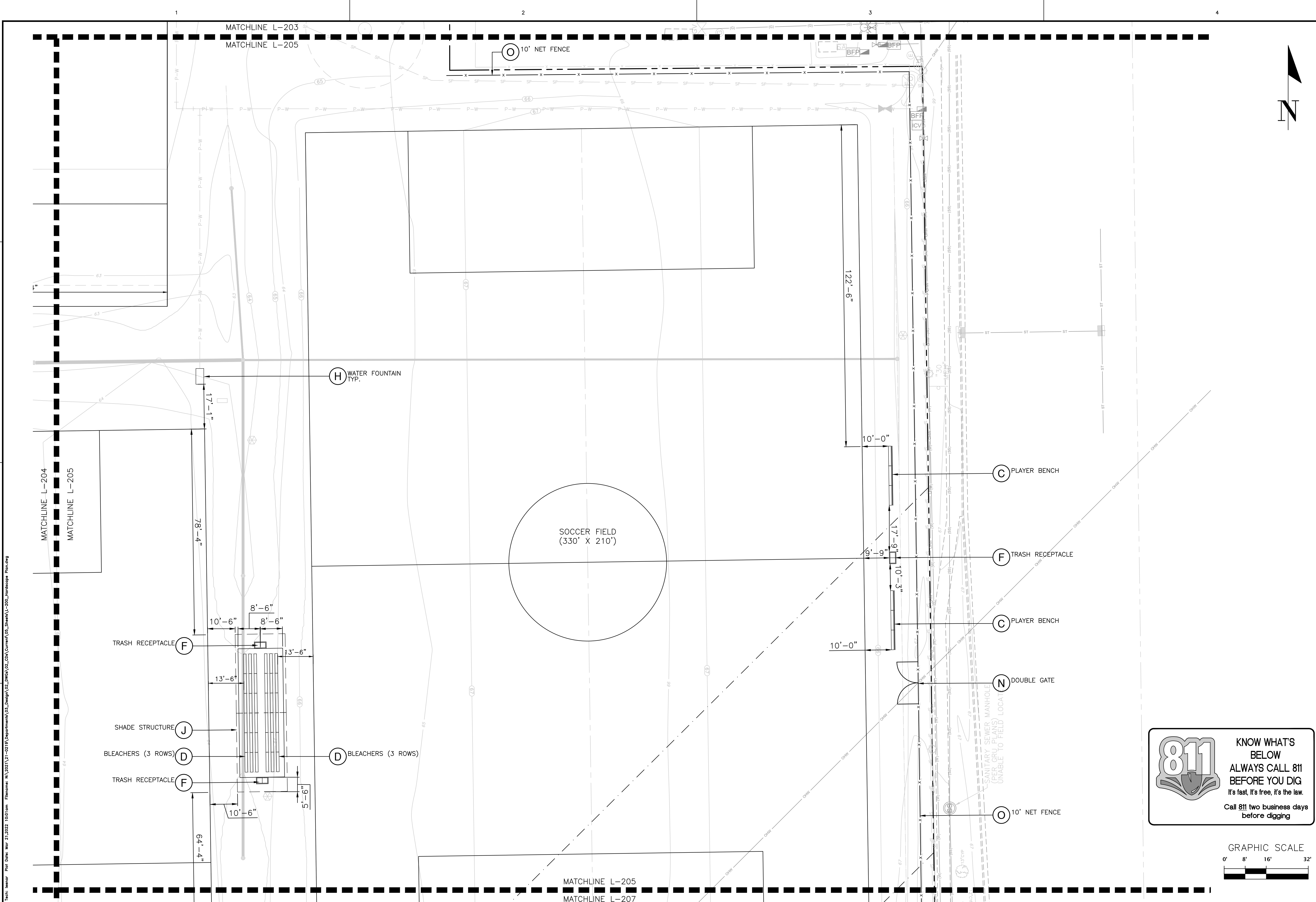
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PROJECT: FOREST PARK WSP
SHEET TITLE: LAYOUT & HARDSCAPE PLAN

DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

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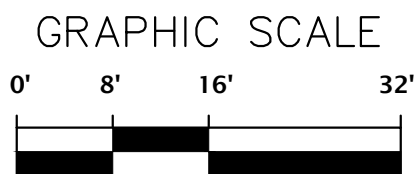
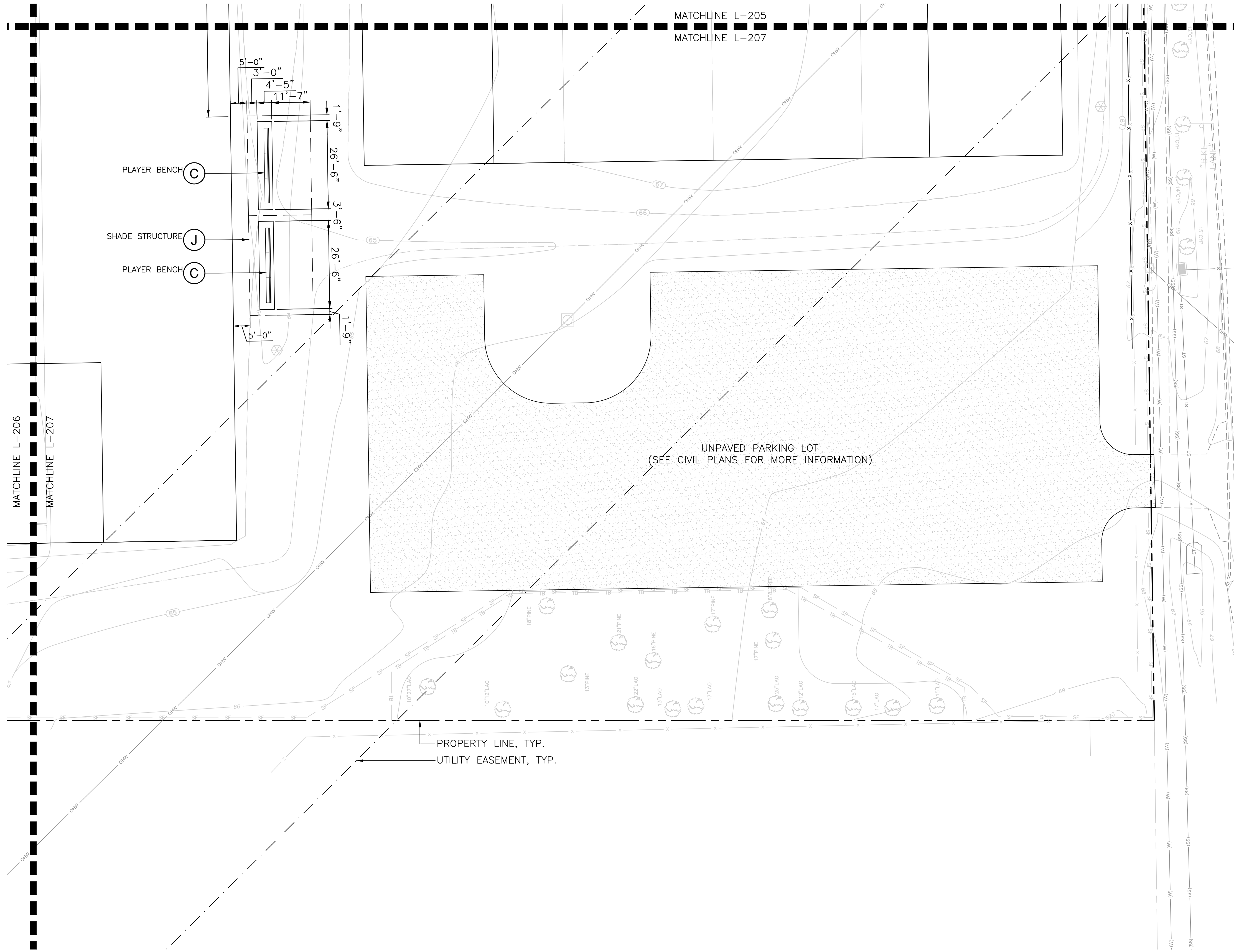


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CITY OF GAINESVILLE

DESIGNER:
JMS

PROJECT:
FOREST PARK WSP

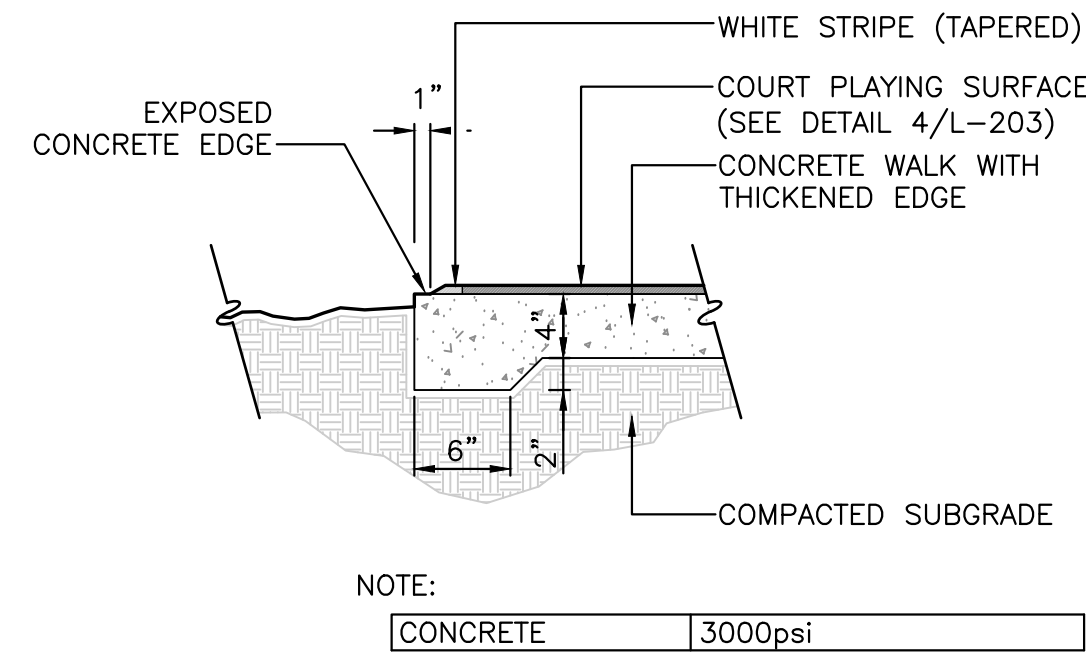
QUALITY CONTROL:
CT

PROJECT NUMBER:
21-0219

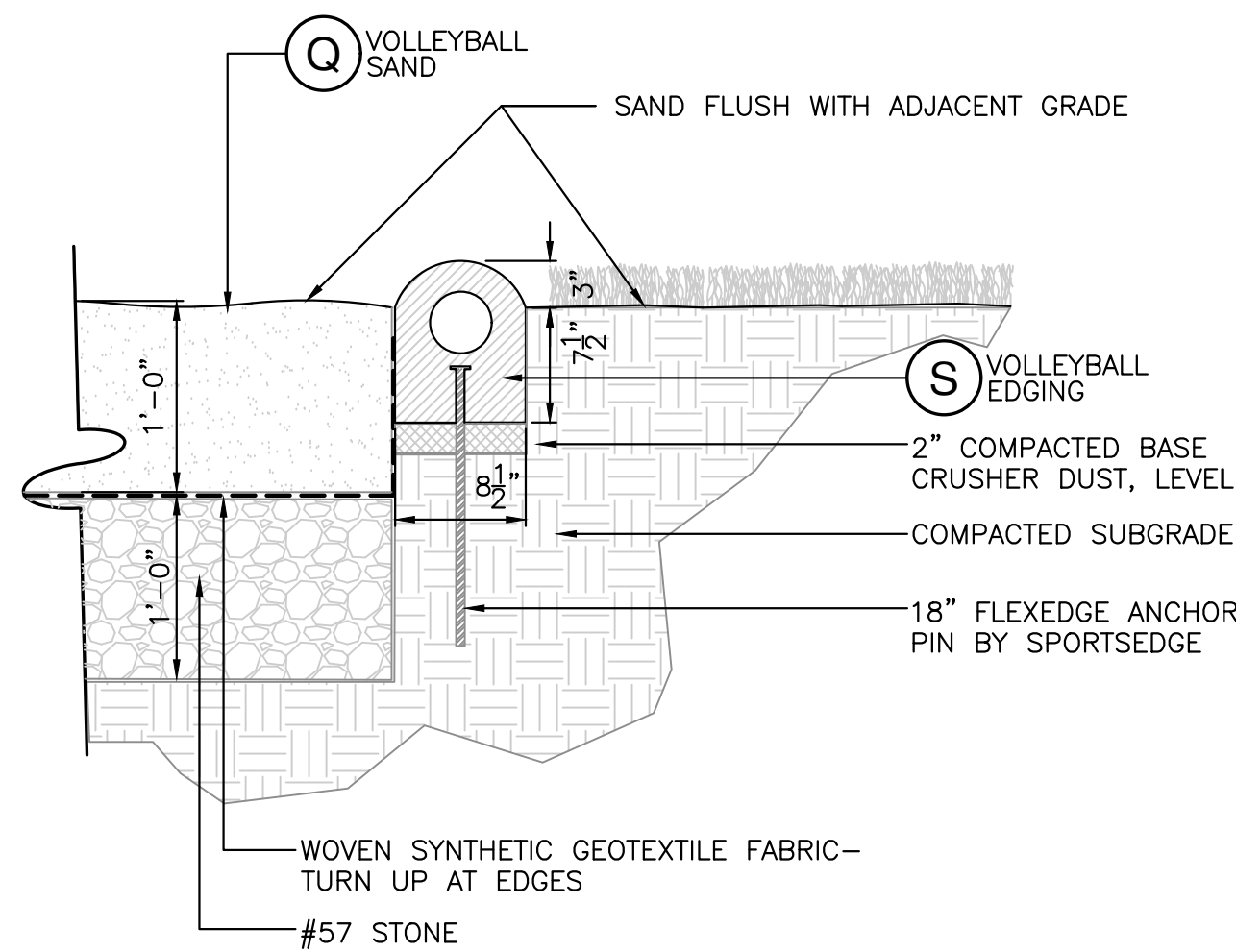
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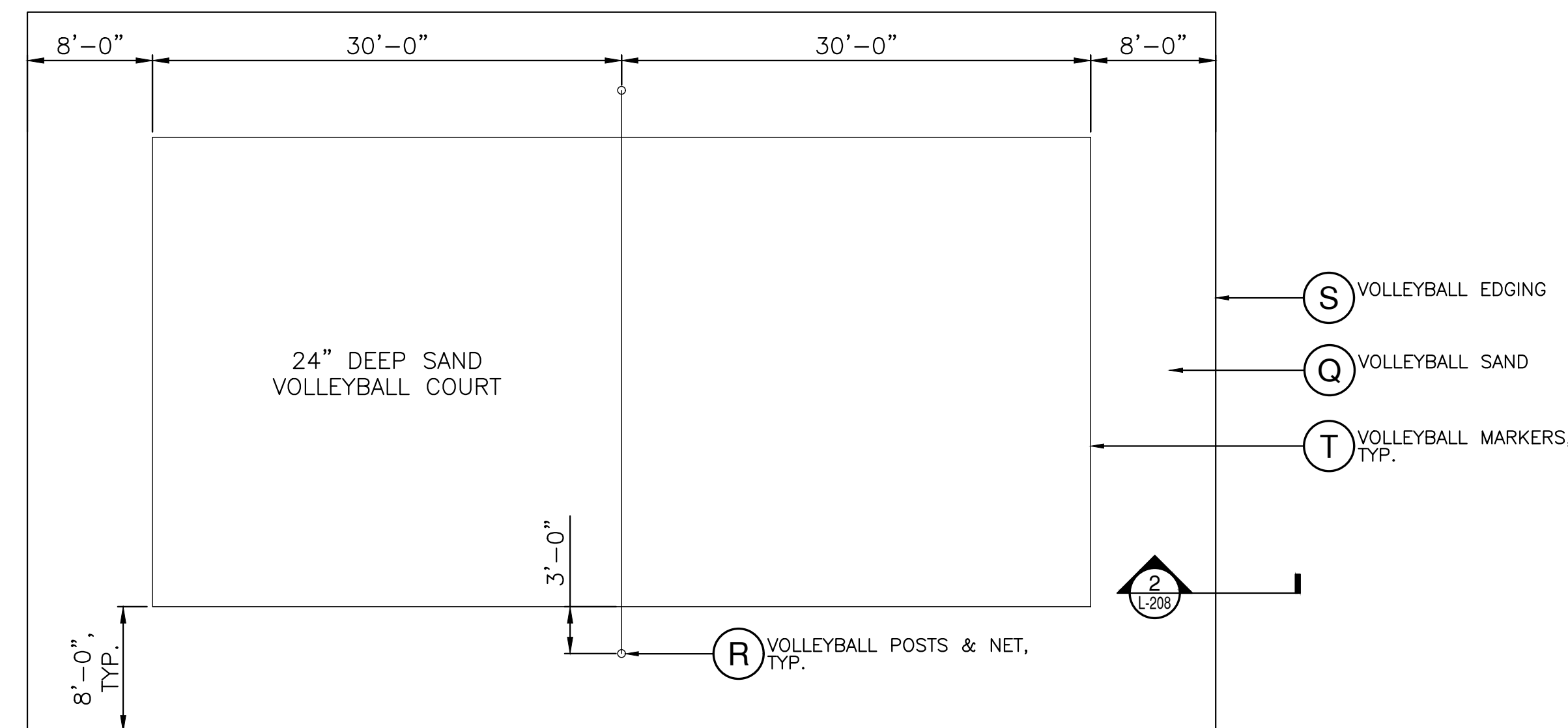
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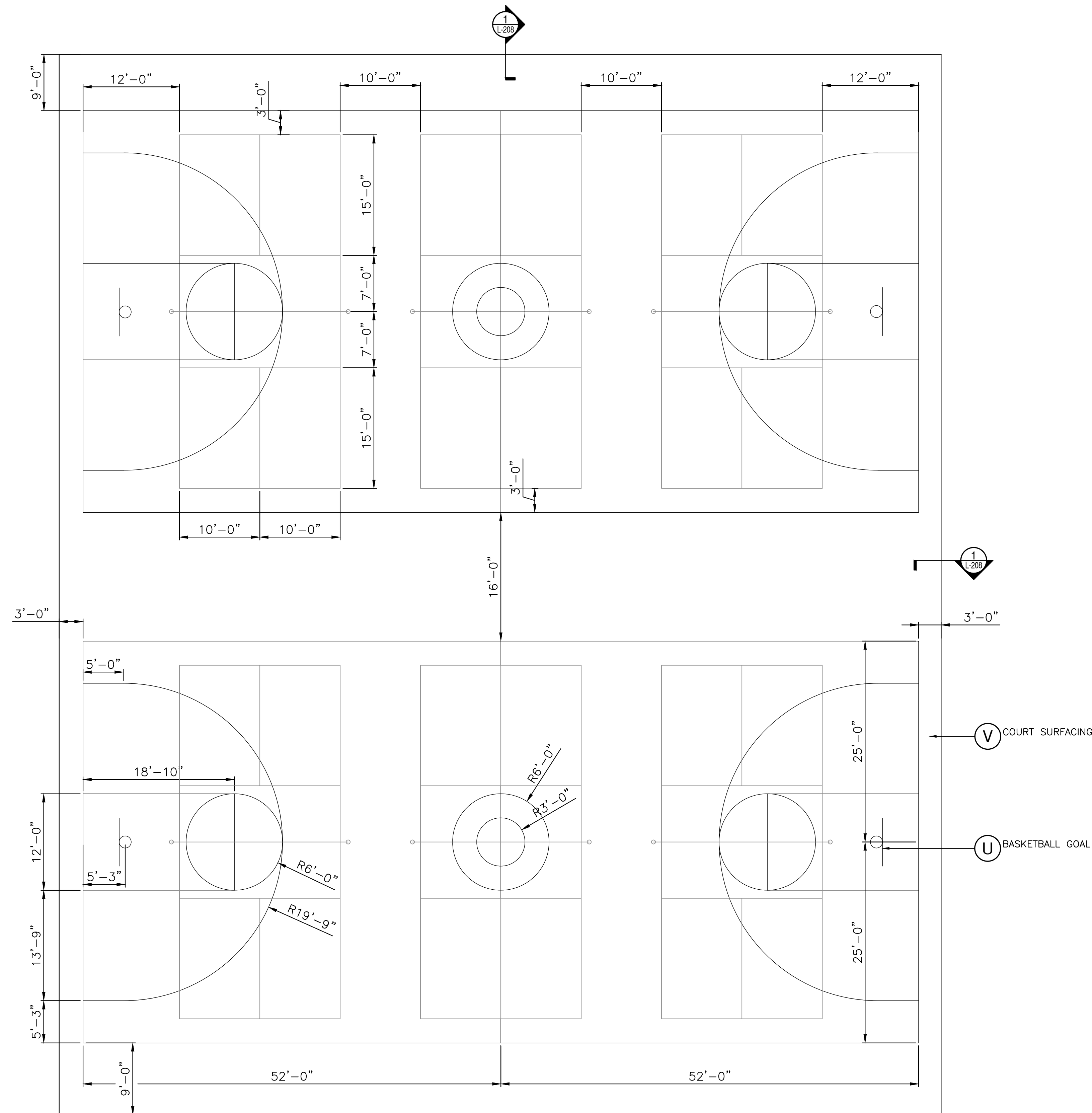
1 SPORTS COURT DETAIL
SCALE: 1" = 1'-0"



2 SAND VOLLEYBALL DETAIL
SCALE: 1" = 1'-0"



3 SAND VOLLEYBALL LAYOUT PLAN
SCALE: 1/8" = 1'-0"



4 BASKETBALL & PICKLEBALL LAYOUT PLAN
SCALE: 1/8" = 1'-0"

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CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
DESIGNER: JMS
QUALITY CONTROL: CT
SHEET TITLE: HARDSCAPE DETAILS
PROJECT NUMBER: 21-0219

PROGRESS SET
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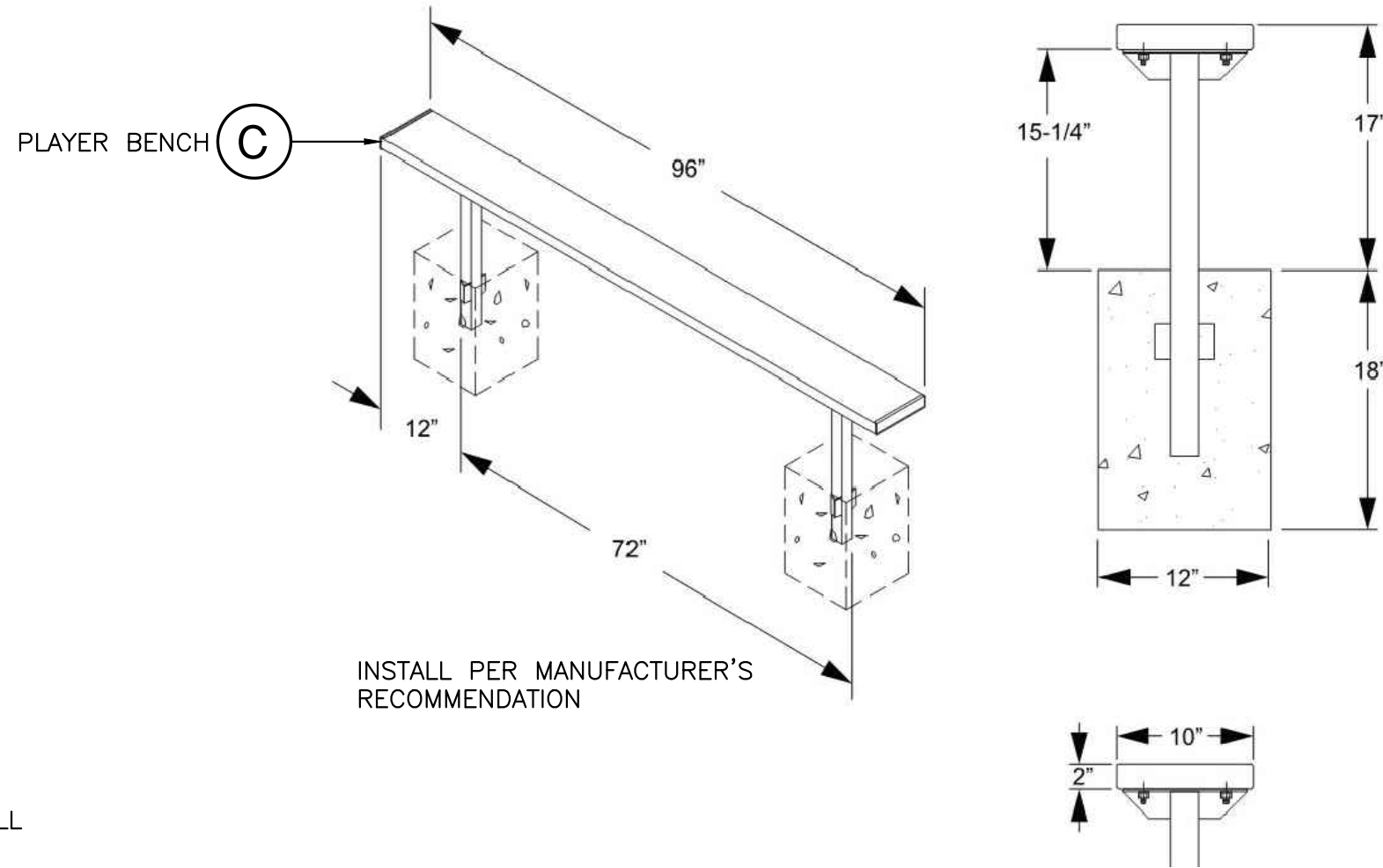
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1 BENCH DETAIL
SCALE: N.T.S.

B BENCH

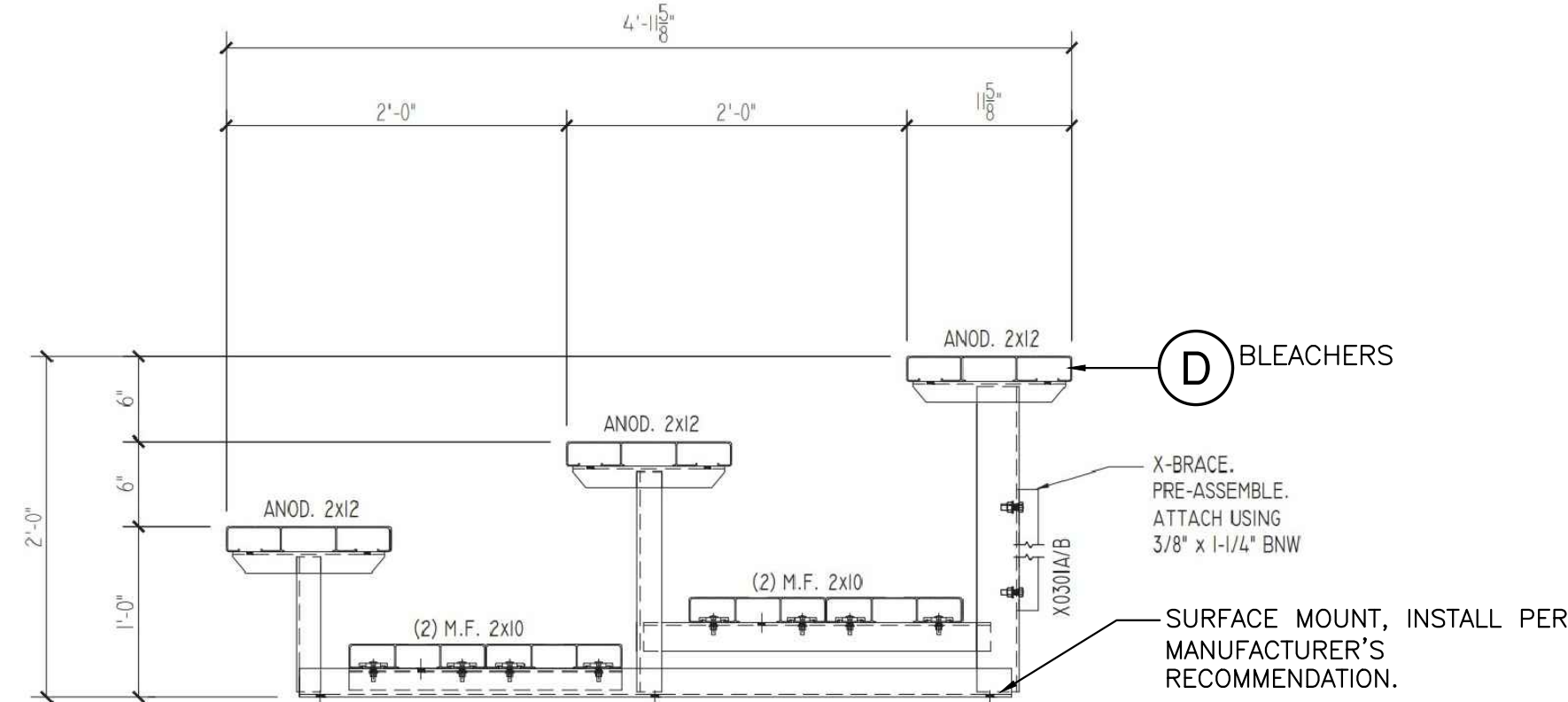
SURFACE MOUNT, INSTALL PER MANUFACTURER'S RECOMMENDATION



INSTALL PER MANUFACTURER'S RECOMMENDATION

2 TYPICAL PLAYERS BENCH SECTION
SCALE: N.T.S.

C PLAYER BENCH



D BLEACHERS

3 TYPICAL BLEACHER SECTION
SCALE: N.T.S.

FINISH SCHEDULE					
SYM	ITEM	SPECIFICATIONS	SYM	ITEM	SPECIFICATIONS
A	TABLE	TYPE: 8' PICNIC TABLE FINISH: THERMOPLASTIC COLOR: 50% BLUE, 50% GREEN SOURCE: ULTRA PLAY #238-V8 (STANDARD TABLE), 238H-V8 (ADA TABLE) OR APPROVED EQUAL	L	4' FENCE	TYPE: 4' HT. WOVEN WIRE MESH WITH 2"x4" SPACING, WITH WOODEN POSTS, TO MATCH EXISTING FINISH: N/A COLOR: N/A SOURCE: N/A
B	BENCH	TYPE: 6' BENCH WITH PARK NAME ENMESHED IN METAL BACK FINISH: THERMOPLASTIC COLOR: 50% GREEN, 50% BLUE SOURCE: ULTRA PLAY #940-P6-BB OR APPROVED EQUAL	M	GATE (4' HT.)	TYPE: 4' HT. SINGLE GATE WITH CHAINLINK MESH, WITH WOODEN POSTS, TO MATCH EXISTING FINISH: N/A COLOR: N/A SOURCE: N/A
C	PLAYER BENCH	TYPE: 8' ALUMINUM BENCH (BACKLESS) FINISH: ALUMINUM COLOR: N/A SOURCE: BELSON #AB8NB-I OR APPROVED EQUAL	N	DOUBLE GATE (4' HT.)	TYPE: 4' HT., DOUBLE GATE (10' WIDE) WITH CHAINLINK MESH, WITH WOODEN POSTS, TO MATCH EXISTING FINISH: N/A COLOR: N/A SOURCE: N/A
D	BLEACHERS	TYPE: 15' ALUMINUM BLEACHERS (3 ROWS) (MATCH EXISTING) FINISH: ALUMINUM COLOR: N/A SOURCE: BELSON #BLU-111 OR APPROVED EQUAL	O	10' NET FENCE	TYPE: 10' HT. BARRIER NET, #30 NYLON TWINE, 2"x2" SPACING FINISH: N/A COLOR: WHITE SOURCE: TBD
E	GRILL	TYPE: ADA COMPLIANT SURFACE MOUNT GRILL FINISH: HIGH TEMP., HEAT RESISTANT, NONTOXIC BLACK ENAMEL COLOR: BLACK SOURCE: RJ THOMAS MFG. CO., INC. #ASW-20 B18 S6 OR APPROVED EQUAL	P	CONCRETE	TYPE: CONCRETE FINISH: REFER TO CIVIL PLANS FOR MORE INFORMATION COLOR: N/A SOURCE: N/A
F	TRASH RECEPTACLE	TYPE: COMBINATION TRASH RECEPTACLE AND RECYCLING BIN FINISH: BLACK HDPE FRAME WITH GREEN HDPE PANELING COLOR: BLACK AND GREEN SOURCE: ARETE INDUSTRIES #CUST-WE3C-47-D OR APPROVED EQUAL	Q	VOLLEYBALL SAND	TYPE: "PLAY SAND" FINISH: DOUBLE WASHED, .5-1MM PARTICLE SIZE, SCREENED & CLEAN COLOR: WHITE SOURCE: ROBERTS SAND COMPANY, 850-576-1414, ROBERTSSANDCO.COM
G	DOGIPOT	TYPE: DOGIPOT BAG DISPENSER, SIGN, AND POLE FINISH: ALUMINUM COLOR: FOREST GREEN SOURCE: DOGIPOT #1011-MINI OR APPROVED EQUAL	R	VOLLEYBALL POSTS & NET	TYPE: VBS-3.5SQ ITEM #65250, OUTDOOR VOLLEYBALL SYSTEM, 12' HT. FINISH: POWDERCOAT COLOR: BLACK SOURCE: DOUGLAS INDUSTRIES, 1-800-533-8907, WWW.DOUGLAS-SPORTS.COM
H	WATER FOUNTAIN	TYPE: DRINKING FOUNTAIN (TROUGH STYLE) WITH PET OPTION AS NOTED FINISH: STAINLESS STEEL COLOR: CHROME SOURCE: MDF, INC. #840 SMSS-01 (TROUGH STYLE) DRINKING FOUNTAIN OR APPROVED EQUAL	S	VOLLEYBALL EDGING	TYPE: FLEXEDGE BEACH VOLLEYBALL RUBBER BORDER FINISH: UV TOP COAT COLOR: BLACK SOURCE: SPORTSEdge, 704-682-9843, SPORTSEdge.COM
I	DOG WASHING STATION	TYPE: DOG WASHING STATION FINISH: STAINLESS STEEL COLOR: N/A SOURCE: PET AND PLAYGROUND PRODUCTS, 866-398-3992	T	VOLLEYBALL MARKERS	TYPE: 1019N-BTS, WEB STRAP 2" PRO COURT ADJUSTABLE LINES FINISH: N/A COLOR: ROYAL SOURCE: VOLLEYBALL MARKET, 866-999-3004, WWW.VOLLEYBALLMARKET.COM
J	SHADE STRUCTURE	TYPE: SINGLE HIP T-CANTILEVER SHADE FINISH: POWDER COATED STEEL COLOR: WHITE (STEEL FRAME), DESERT SAND (CANVAS SHADE) SOURCE: USA SHADE. HIP T-CANTILEVER OR APPROVED EQUAL	U	BASKETBALL GOAL	TYPE: 656 GOOSENECK OUTDOOR BASKETBALL DIRECT MOUNT 6' EXT. FINISH: 850RB-BB & UBG-500F COLOR: N/A SOURCE: JAYPRO SPORTS, 800-649-3688
K	PAVILION	TYPE: 20' X 36' TUBE STEEL PAVILION WITH A GABLE ROOF FINISH: POWDERCOATED STEEL COLOR: WHITE BEAMS, BLUE ROOF SOURCE: RCP SHELTERS, INC #ITS-G2036-04 OR APPROVED EQUAL	V	COURT SURFACING	TYPE: LAYKOLD SPORTS SURFACING, MASTERS 5 FINISH: N/A COLOR: TBD SOURCE: ACE SURFACES, CONTACT KYLE SMALLWOOD, 407-463-2848
NOTE: CONTRACTOR SHALL SUBMIT SAMPLES AND/OR SHOP DRAWINGS FOR ALL FINISH SCHEDULE ITEMS					



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2/20/2021 100% CDS FOR REVIEW

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DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT: FOREST PARK WSP
SHEET TITLE: LANDSCAPE DETAILS & FINISH SCHEDULE
PROJECT NUMBER: 21-0219

PROGRESS SET
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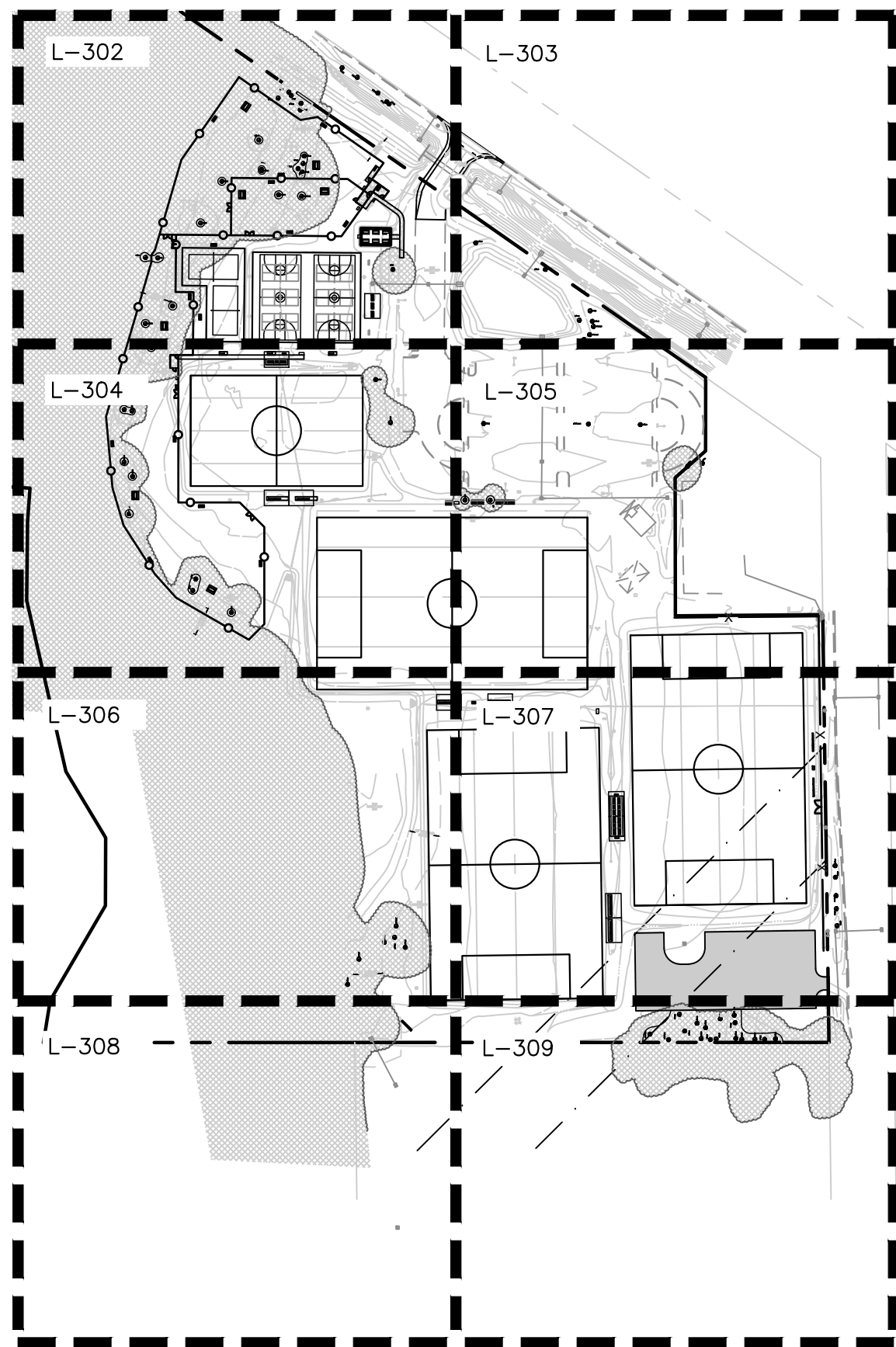
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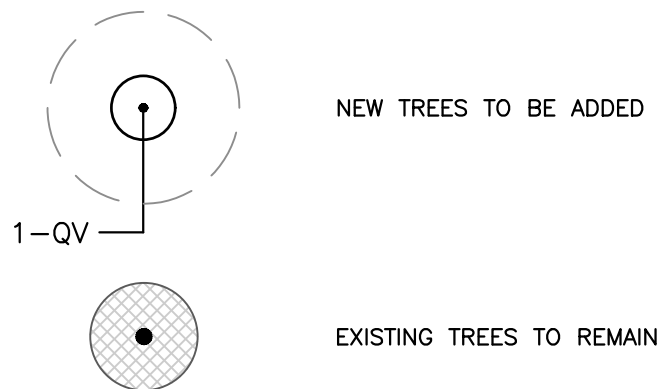


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LEGEND



GENERAL NOTES

ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM PLANTING BEDS AND SOD AREAS PRIOR TO LANDSCAPE INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION OR INSTALLATION, THESE SHALL BE EXCAVATED AND REMOVED FROM THE SITE. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 6.0 - 7.5.

ALL LANDSCAPED AREAS SHALL BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS, EXCEPT RETENTION AREAS. PINE STRAW MULCH SHALL BE USED IN RETENTION AREAS.

NEW TREES OUTSIDE OF MULCHED LANDSCAPED BEDS WILL BE PROTECTED FROM MOWER AND STRING TRIMMER DAMAGE WITH 10" OF PLASTIC DRAIN TUBING.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES SHALL NOT BE TOPPED OR PRUNED. TREES WILL BE STAKED AS NEEDED. GUYLINES WILL BE OF NON-SYNTHETIC BIODEGRADABLE MATERIAL.

CALL THE URBAN FORESTRY INSPECTOR FOR A BARRICADE INSPECTION AT 352-334-5023 BEFORE CLEARING AND GRUBBING WORK BEGINS. REFER TO CIVIL PLANS FOR TREE BARRICADE DETAILS AND INFORMATION.

INVASIVE EXOTIC PLANT MATERIAL

ALL INVASIVE PLANT SPECIES TO BE REMOVED FROM SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

GRASSING

ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH SOD THAT IS FREE OF NOXIOUS WEEDS INCLUDING TROPICAL SODA APPLE OR SHALL BE SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL

ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY'S 'GRADES AND STANDARDS FOR NURSERY PLANTS', CURRENT EDITION AT THE TIME PLANS ARE ISSUED. CALL THE CITY URBAN FORESTRY INSPECTOR AT 352-334-5023 AND LANDSCAPE ARCHITECT PRIOR TO PURCHASING ANY PLANT MATERIAL FOR AN ON SITE INSPECTION AND REVIEW OF LANDSCAPE PLAN.

PLANT QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES SHOWN ON THE PLAN.

IRRIGATION

LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM. BUBBLERS SHALL BE INSTALLED BY EACH TREE AS PART OF THE IRRIGATION SYSTEM.

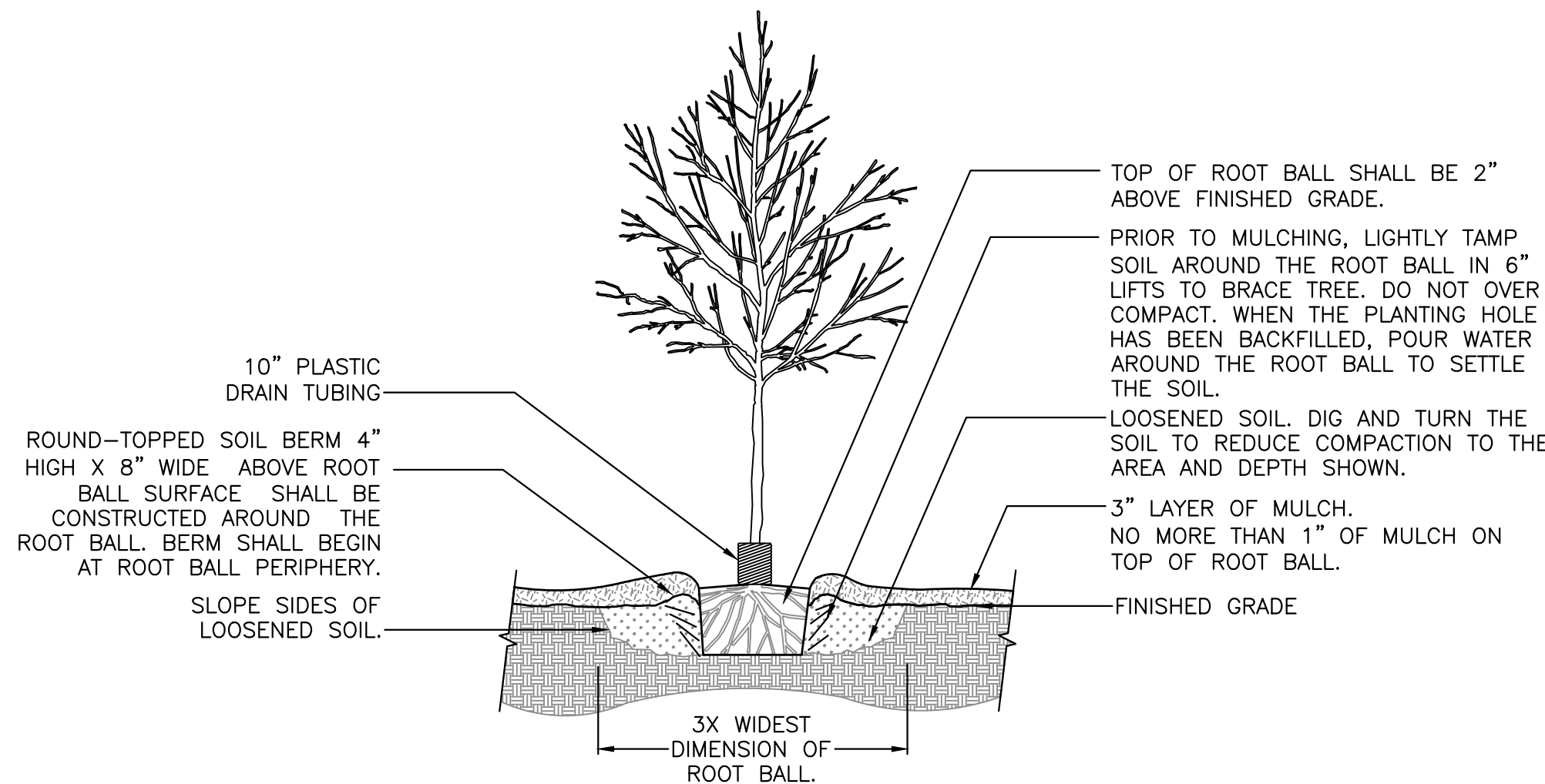
AN AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL NEW REQUIRED LANDSCAPING INSTALLED (ALACHUA COUNTY LDC SEC. 407.46(A)). PRIOR TO THE INSTALLATION OF A NEW PERMANENT IRRIGATION SYSTEM OR SUBSTANTIAL MODIFICATION TO AN EXISTING SYSTEM, AN IRRIGATION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT THROUGH THE ONLINE ALACHUA COUNTY IRRIGATION PROFESSIONAL PORTAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE IRRIGATION PLAN THROUGH THE IRRIGATION PROFESSIONAL PORTAL. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE LANDSCAPE IRRIGATION DESIGN AND MAINTENANCE STANDARDS FOUND IN ARTICLE II OF PART II, TITLE 7, CHAPTER 79 OF THE ALACHUA COUNTY CODE, WHICH, AMONG ADDITIONAL DESIGN STANDARDS, LIMITS HIGH VOLUME IRRIGATION TO 60% OF THE LANDSCAPED AREA. FOR MORE INFORMATION, CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AT 352-264-6800.

T.M.P.A.

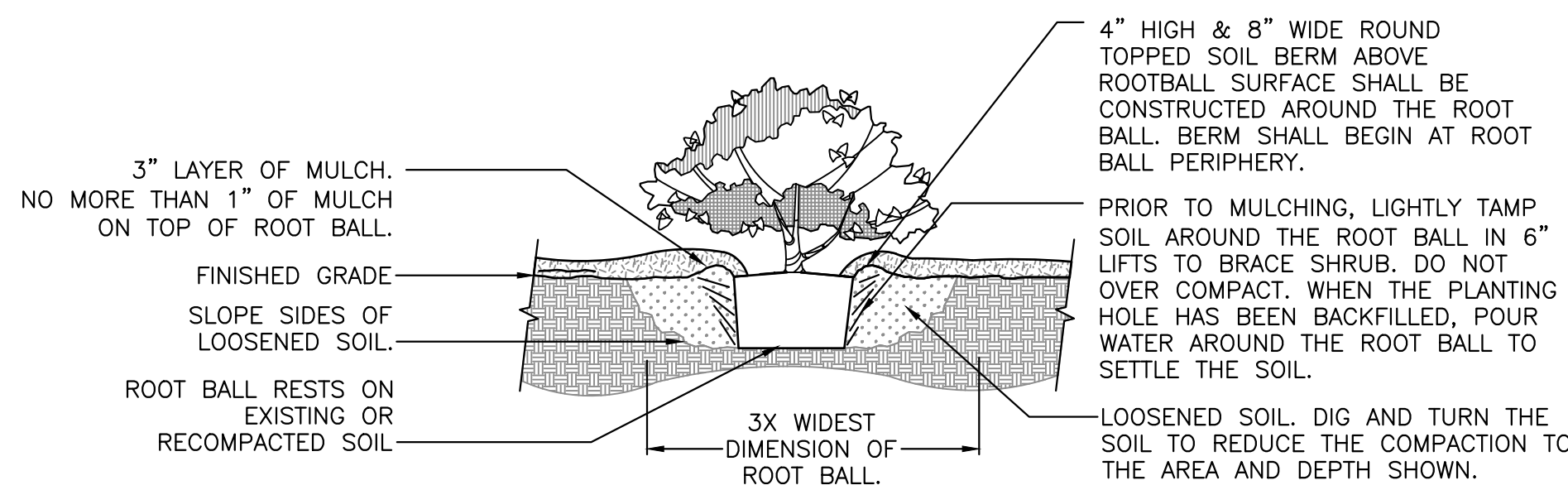
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PLANT SCHEDULE

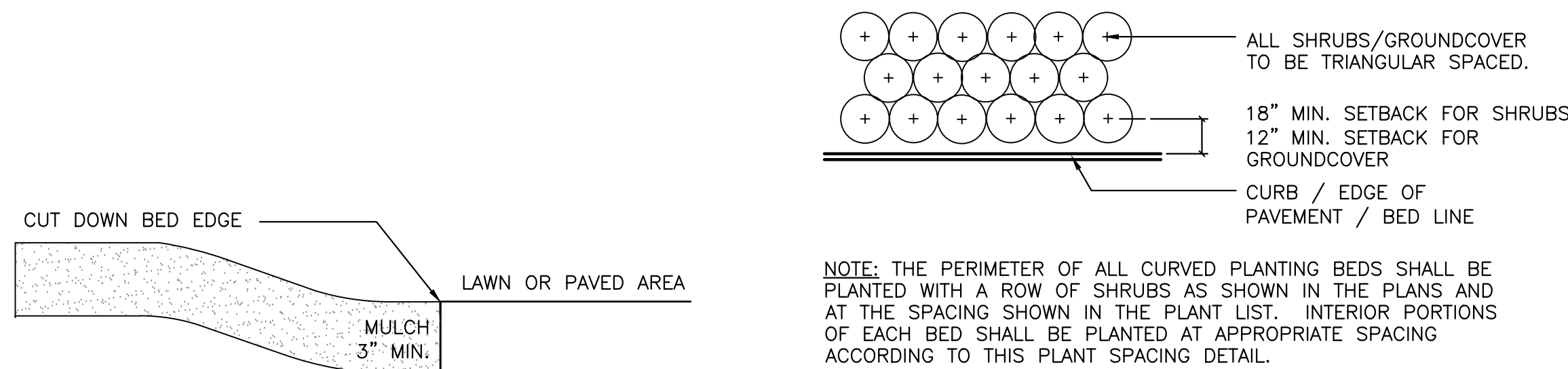
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
PE	3	PINUS ELLIOTTII 'DENSE'	SLASH PINE	30 GAL, 12" HT, 42" SPR, 2" CAL
QS	3	QUERCUS SHUMARDII	SHUMARD RED OAK	30 GAL, 12" HT, 42" SPR, 2" CAL
QV	10	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	30 GAL, 12" HT, 54" SPR, 2" CAL
UA	3	ULMUS ALATA	WINGED ELM	30 GAL, 10' HT, 4' SPR, 2" CAL
SOD/SEED		BOTANICAL NAME	COMMON NAME	SIZE
SOD		PASPALUM NOTATUM 'ARGENTINE'	BAHIA GRASS	WEED FREE AND SAND GROWN SOD
SPRIGS		CYNODON DACTYLON 'TIF TUF'	TIF TUF BERMUDA GRASS	SPRIGGING



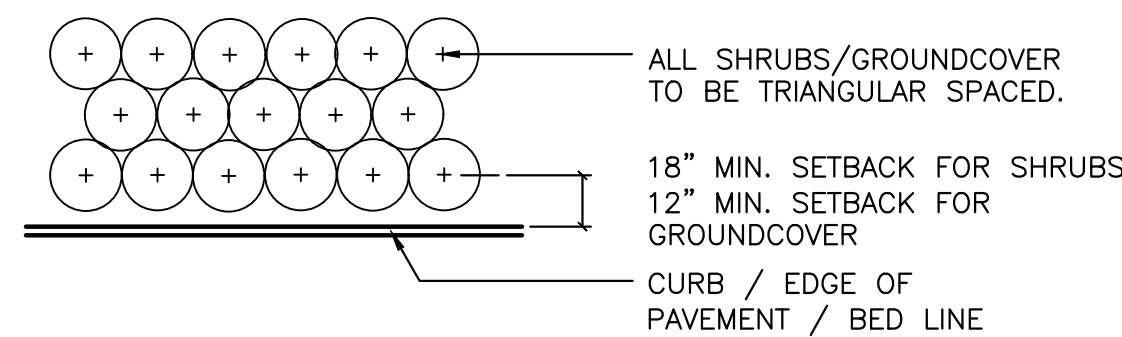
1 TREE PLANTING DETAIL
SCALE: N.T.S.



2 SHRUB PLANTING DETAIL
SCALE: N.T.S.



3 MULCH DETAIL
SCALE: N.T.S.



4 SHRUB PLANTING DETAIL
SCALE: N.T.S.

NOTE: THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

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SCALE: N/A
VERIFY SCALE
BASED ON THE
ORIGINAL DRAWING
0 = 1" = 10' (SEE NOTE)
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

SCALE: N/A

CONSTRUCTION/BBU RELEASES

2203321, 100% CD'S FOR REVIEW

CITY OF GAINESVILLE

PROJECT: FOREST PARK WSP

SHEET TITLE: LANDSCAPE NOTES & DETAILS

DESIGNER: JMS

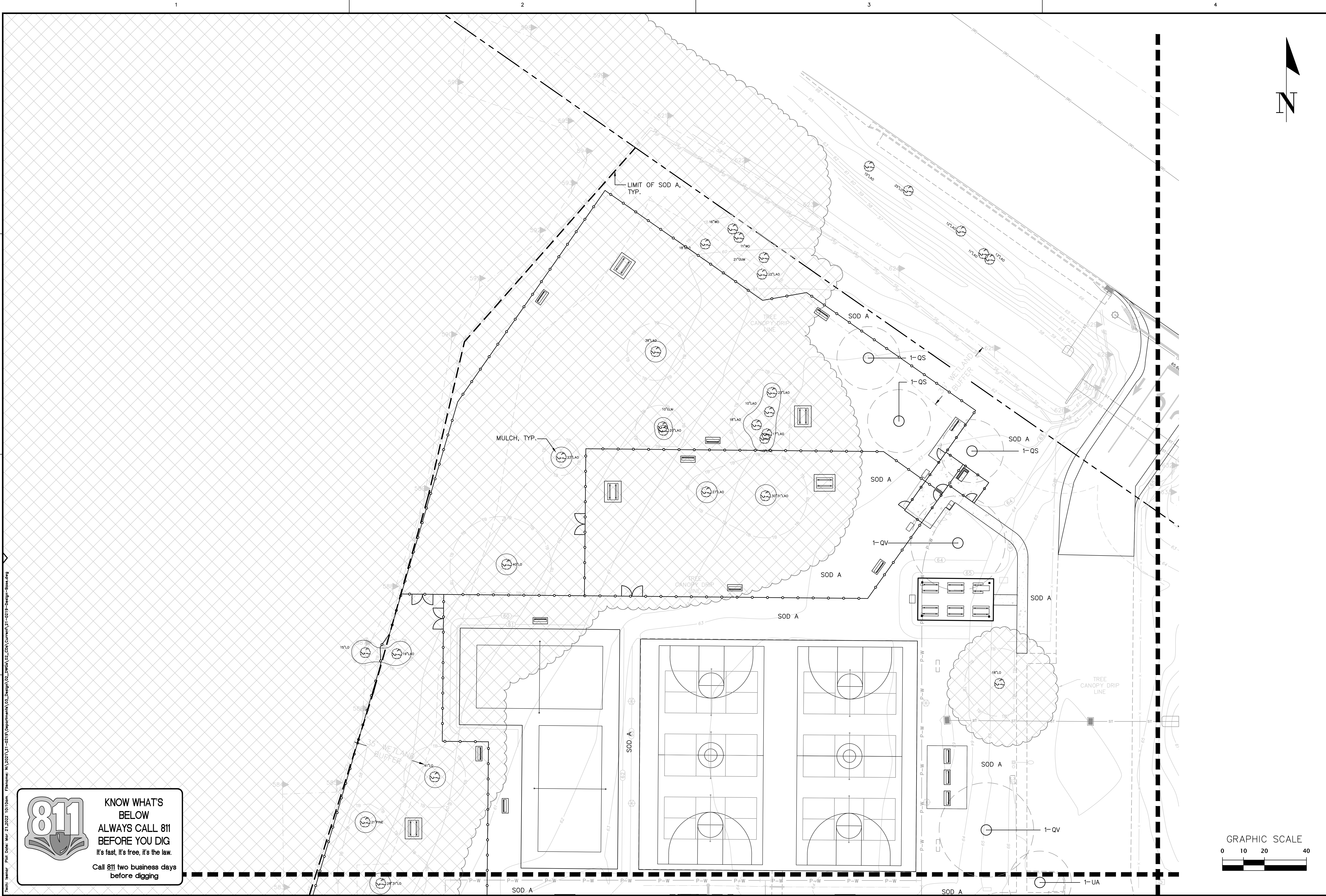
DESIGNER: JMS

QUALITY CONTROL: CT

PROJECT NUMBER: 21-0219

PROGRESS SET
NOT FOR CONSTRUCTION

SHEET NO.:
L-301



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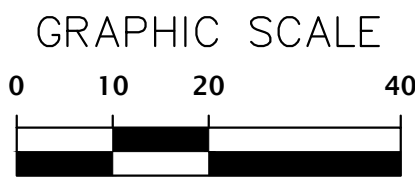
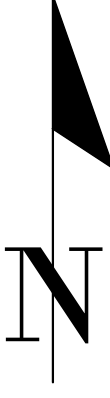
A
B
C
D

Technical: JMS Date: Mar 21, 2022 10:10am Filename: N:\2021\21-0219\Department\03_Design\02_DWG\02_CSA_Current\21-0219-Design-Basis.dwg

SHEET NO: L-302		PROJECT: FOREST PARK VSP		CLIENT: CITY OF GAINESVILLE		DATE: 220321 100% CD'S FOR REVIEW		CONSTRUCTION/BD RELEASE		SCALE: 1"=20'		11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA LA000683	
DESIGNER: JMS		QUALITY CONTROL: CT		PROJECT NUMBER: 21-0219		SHEET TITLE: LANDSCAPE PLAN		SHEET NO: L-302		PROGRESS SET NOT FOR CONSTRUCTION		CHW Professional Consultants	



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VIEW SCALE
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CONSTRUCTION/BD RELEASE

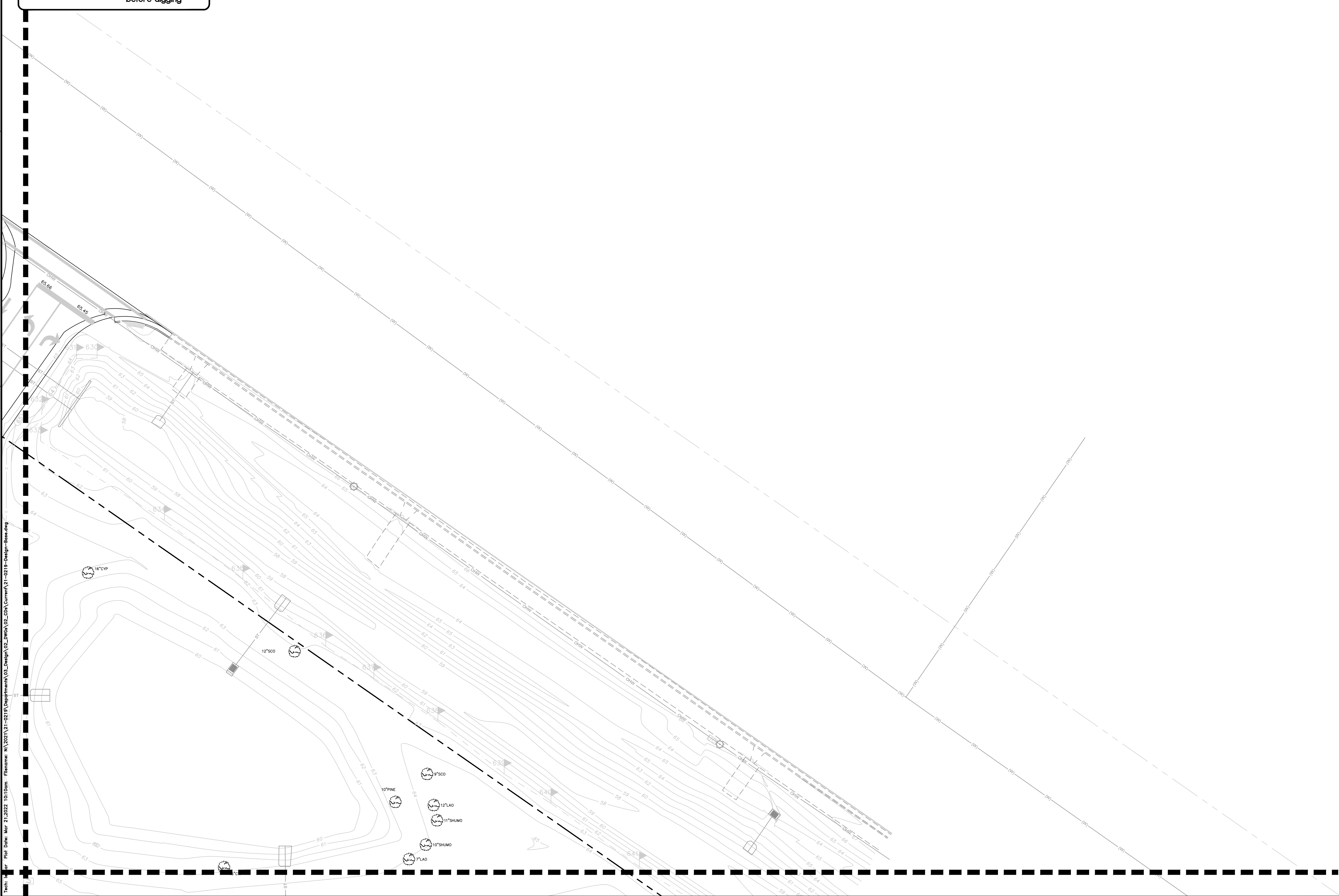
220321 100% CD'S FOR REVIEW

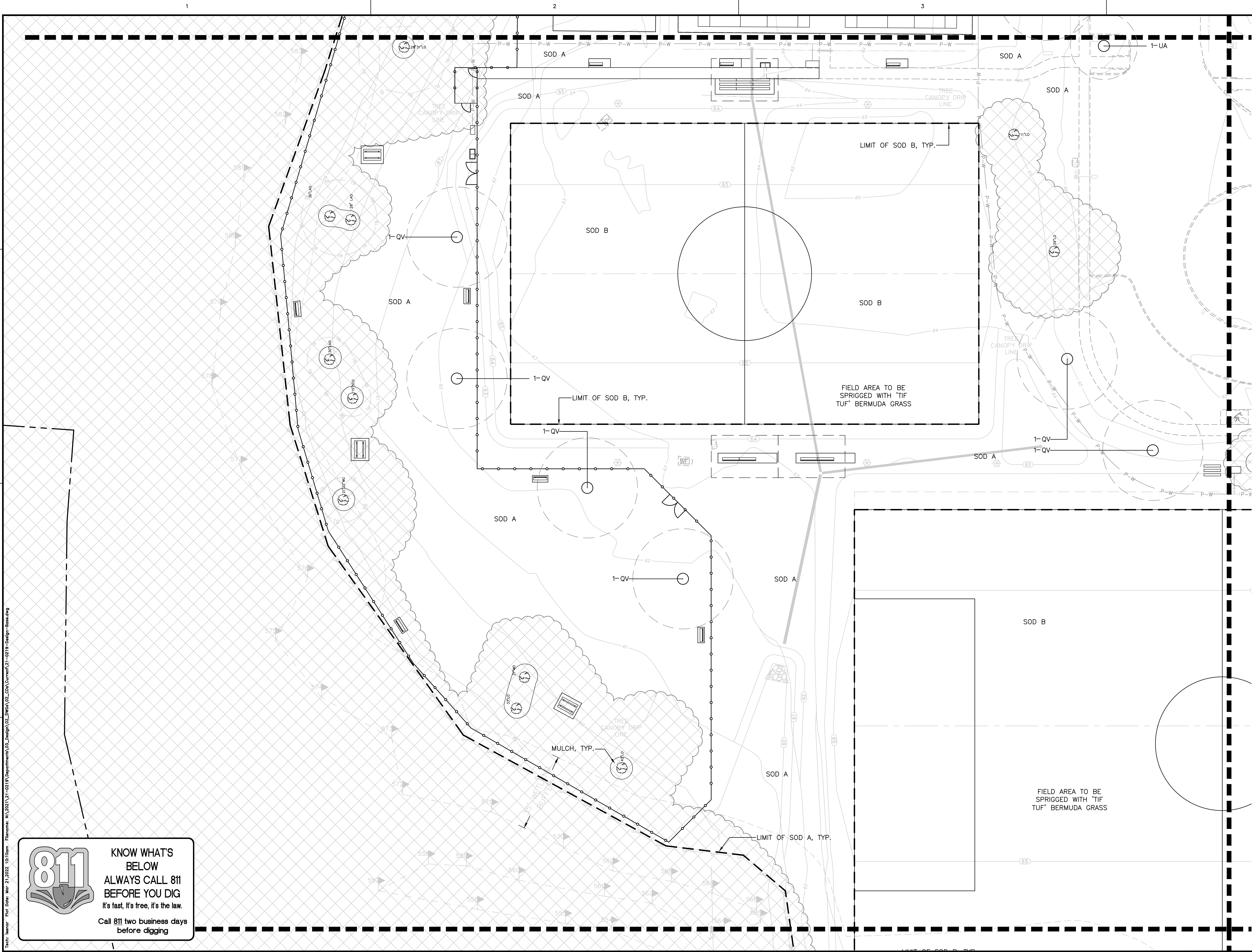
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PROJECT: FOREST PARK WSP
SHEET TITLE: LANDSCAPE PLAN

DESIGNER: JMS
DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

PROGRESS SET
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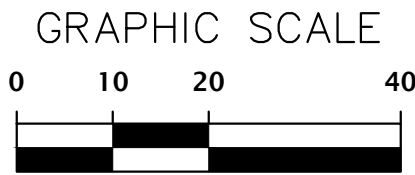
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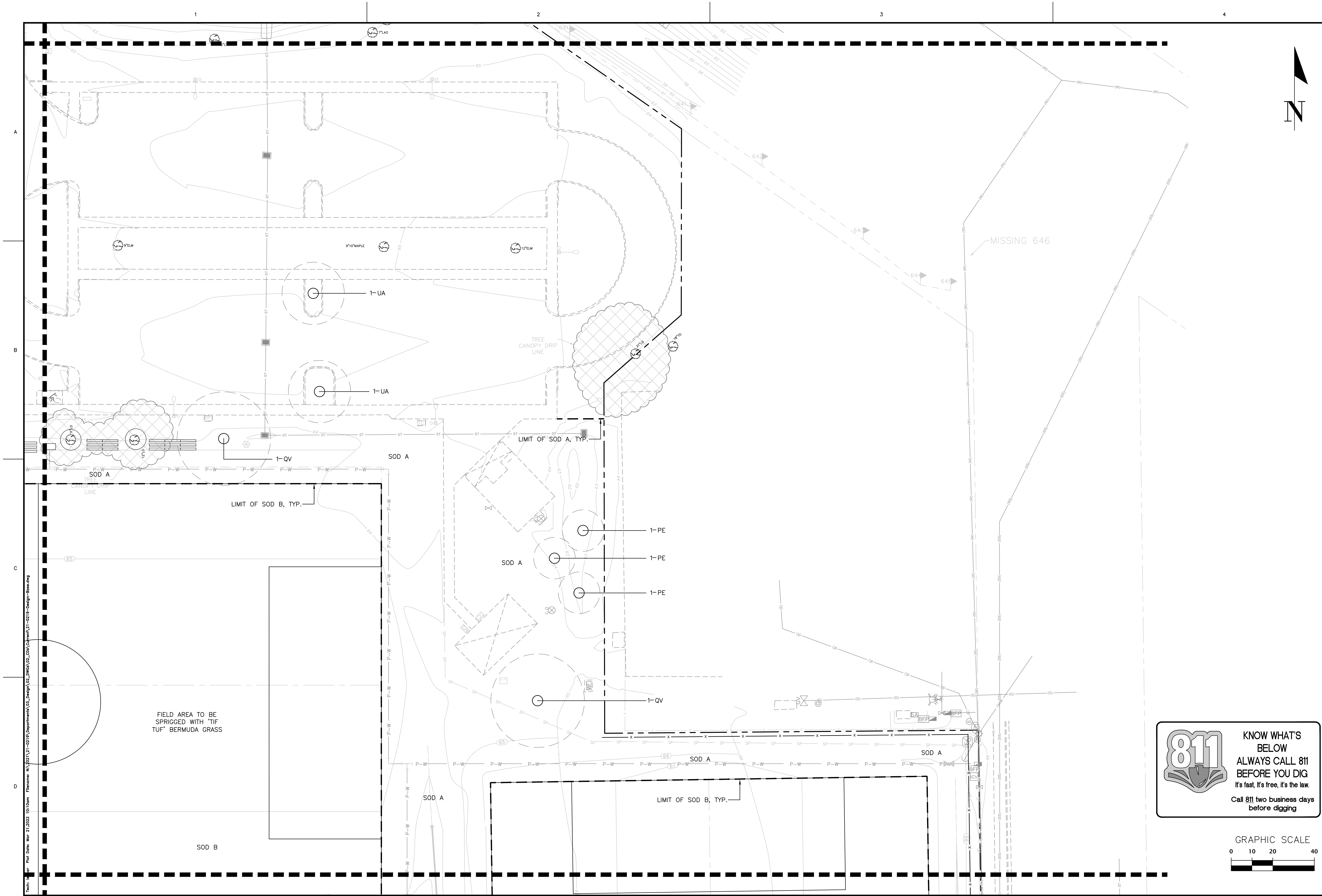


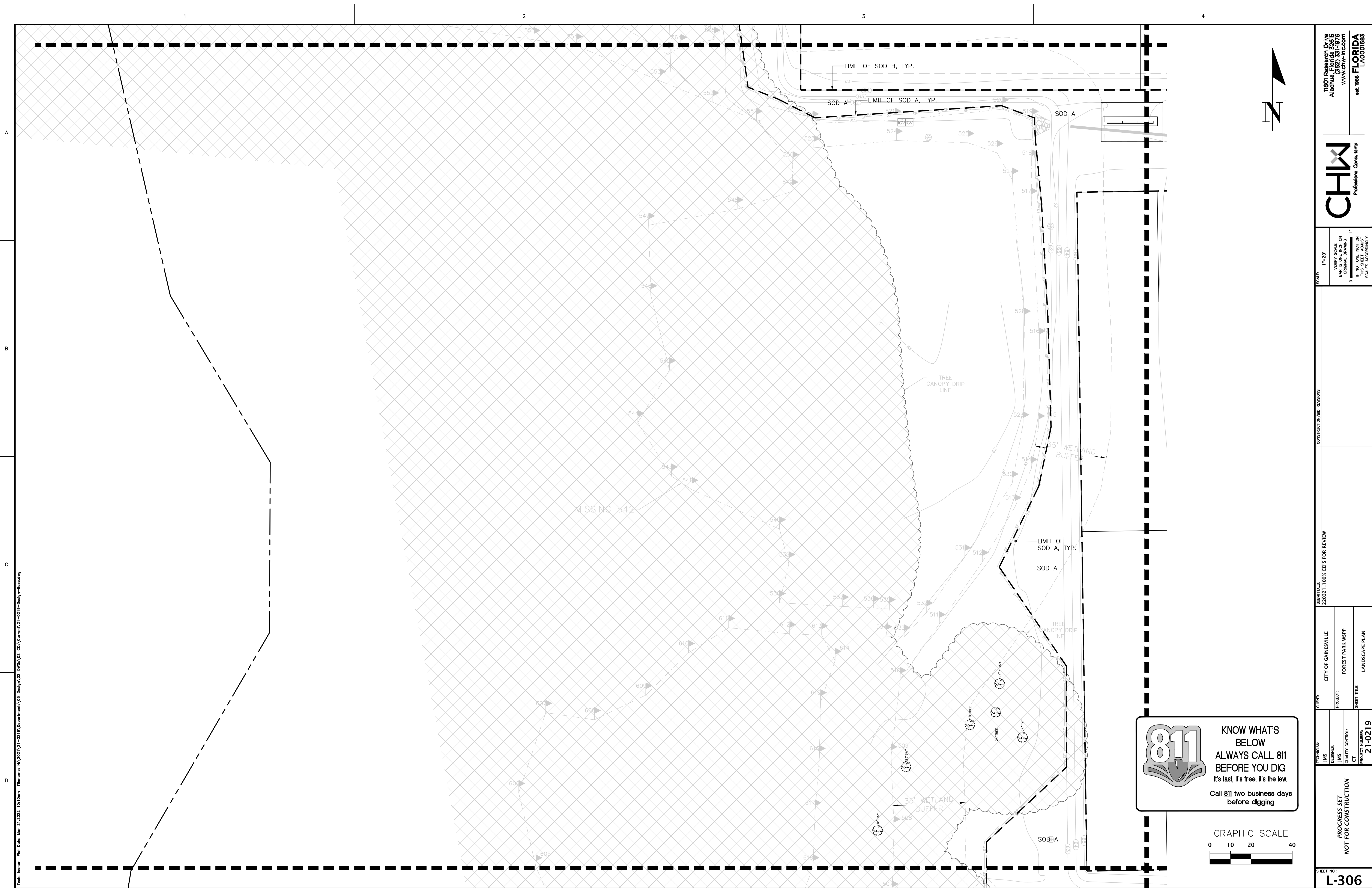


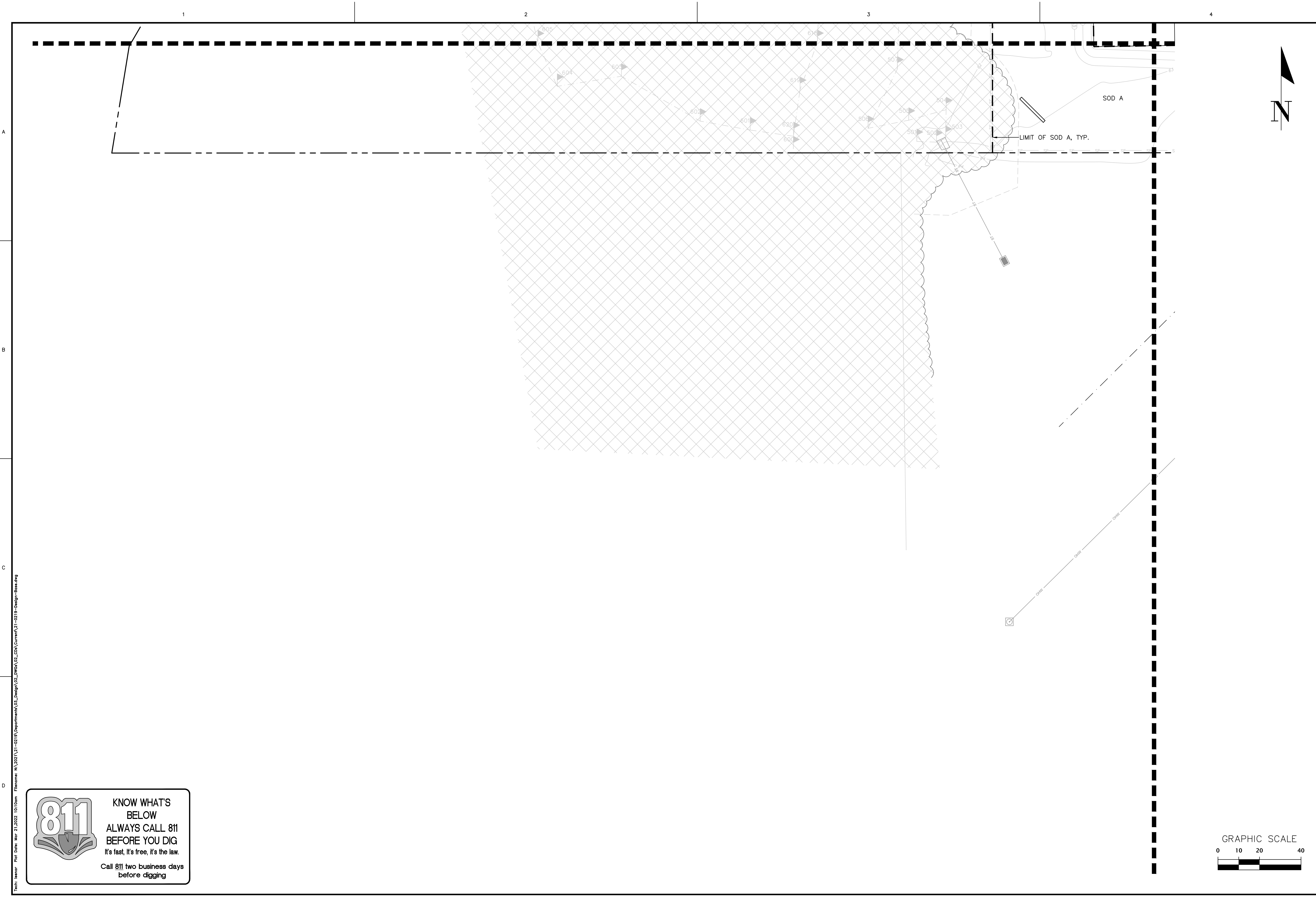
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SHEET NO: L-304		PROGRESS SET NOT FOR CONSTRUCTION		DESIGNER: JMS	CLIENT:	CITY OF GAINESVILLE	SCALE: 1"=20'
		QUALITY CONTROL: CT	PROJECT:	FOREST PARK WSPP	CONSTRUCTION/BD RELEASE		DATE: 220321 100% CD'S FOR REVIEW
		PROJECT NUMBER: 21-0219	SHEET TITLE:	LANDSCAPE PLAN			DESIGNER'S SCALE ON ORIGINAL DRAWING 0"=1' MAY VARY FROM THIS SHEET, ADJUST SCALES ACCORDINGLY.
						CHW Professional Consultants	11801 Research Drive Alicia, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA LA000683









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DESIGNER:
JMS

QUALITY CONTROL:
CT

PROJECT NUMBER:
21-0219

CLIENT:
CITY OF GAINESVILLE

PROJECT:
FOREST PARK VSP

SHEET TITLE:
LANDSCAPE PLAN

DATE:
22/03/21

100% CD'S FOR REVIEW

SCALE:
1"=20'

VIEW'S SCALE
BASED ON
ORIGINAL DRAWING
0' 10' 20' 30' 40' 50' 60' 70' 80' 90' 100'
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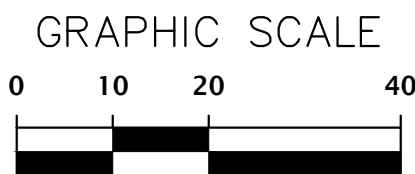
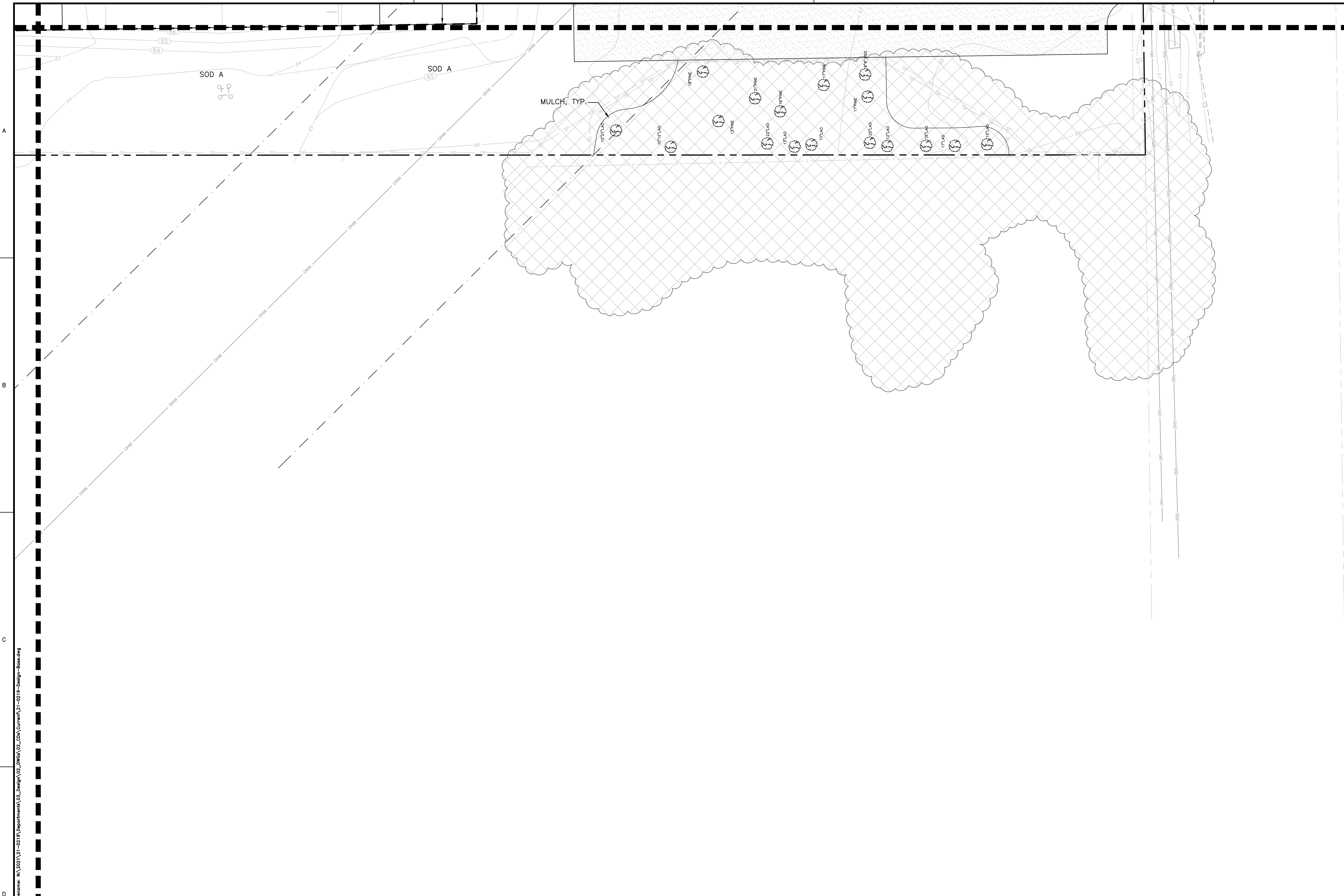
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SHEET NO.:
L-308

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SHEET NO: L-309

PROGRESS SET
NOT FOR CONSTRUCTION

DESIGNER: JMS
DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK VSPPP
SHEET TITLE: LANDSCAPE PLAN

STATUS: 220321 100% CD'S FOR REVIEW

CONSTRUCTION/BD RELEASE

SCALE: 1"=20'
VIEW SCALE
BASE SCALE ON
ORIGINAL DRAWING
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SECTION 02824 - SPORT FIELD SPRIGGING

PART 1 - GENERAL

- 1.1 SCOPE OF WORK: Provide all labor, materials, equipment, incidentals necessary to install the sport field turf areas, in accordance with the drawings and as specified, including grow in and maintenance of the field until acceptance by the Owner.

1.2 SUBMITTALS:

- A. Provide a list of proposed suppliers and subcontractors to the Owner/Landscape Architect for review and approval.
- B. Identify proposed material weed/pest free source for sport field spring material for bid.
- C. Certify to the Owner/Landscape Architect that spring / sod material complies with requirements of respective sport field areas.
- D. Submit labels for fertilizer and fertilization schedule to the Owner/Landscape Architect at least one week prior to use.
- E. Contractor shall submit prior appropriate specified equipment.
- F. Certified Pesticide Applicator: Provide copies of current license of Pesticide Applicator. Certification to be maintained for duration of work.

1.3 GENERAL REQUIREMENTS

- A. Grade to a finished grade and notify Owner/Landscape Architect for inspection prior to sprigging.
- B. Prior to final laser grading, incorporate Green Edge 5-3-10 into rootzone at a rate of 1 ton per acre.
- C. All soft field areas shall be graded prior to sprigging to meet elevation specifications. Laser grade the entire area to ± 0.15 feet or less.
- D. Before sprigging, certify to the Owner/Landscape Architect that the soft field grades conform to the desired final grades and has no undulations to exceed $+0.05$ or $-0.14'$.
- E. Seed and verify automatic coverage of the entire area to head-to-head coverage. Reviews of area coverage and uniformity shall be performed prior to sprigging.
- F. Apply Green Edge 5-3-10 at 2,000 lbs. per acre.
- G. Establish preemergent herbicide and water in accordance with label.
- H. Contractor shall protect sprigged area and provide adequate erosion control.

1.4 GUARANTEE:

- A. The Contractor shall guarantee the installed sprigs for a period of one year from the date of acceptance.

PART 2 - PRODUCTS

- 2.1 MATERIALS:
- A. Sprigs - Pine Creek Turf certified Tifway 419 Bermuda grass, 3" in length, 12 hour cut to install time.
 - B. Fertilizer shall be a balanced, fairway grade commercial fertilizer with a 1-1-1 ratio. It shall be delivered to the site in the original unopened containers each showing the manufacturer's guarantee analysis. Store fertilizer so that when used it shall be dry and free flowing.

PART 3 - EXECUTION

- 3.1 SPRIGGING:
- A. Plant sprigs over the prepared area at a rate of 1,000 bushels per acre. Press into the top 2" of soil with sprig planter. Roll with 1 ton steel rollers to firm the planting bed. After planting, springs shall be additionally cut in with sprig crimper.

3.2 DRY SPRIGS

- 3.3 STEEL ROLLER OPERATION: The Contractor shall start rolling the sprigged areas a minimum of 7 days after completion of sprig installation operation. Rolling shall be scheduled for a minimum of a one time per every 10 (ten) day cycle. Steel Wheel Roller to be approved by Owner/Landscape Architect.
- 3.4 IRRIGATION: Water sprigs as soon as they are planted. Keep planted areas continuously moist by watering as often as required through the day during the first three weeks following planting (or until rooting occurs) at a rate of 1/10th of a foot of water per application. Once rooting occurs, decrease watering frequency to once daily at a rate of 1/4" of water per application.

3.5 FERTILIZATION: One week after planting, fertilize with Green Edge 6-4-0 Plus at a rate of 1,000 lbs. per acre. Two weeks after planting apply ammonium sulfate at a rate of $\frac{1}{2}$ lbN/1,000 sq.ft. Three weeks after planting apply 10-10-10 at 200 lbs. per acre. Four weeks after planting apply ammonium sulfate 12-3-6 plus at 400 lbs. per acre. Five weeks after planting apply ammonium sulfate at $\frac{1}{2}$ lbN/1,000 sq. ft. Six weeks after planting apply Green Edge 6-4-0 plus at a rate of 1,000 lbs. per acre and Green Edge 12-3-6 plus at $\frac{3}{4}$ lbN/1,000 sq. ft. Eight weeks after planting apply Green Edge 15-5-10 Plus Liquid fertilizer. The applications and rates shall apply unless directed otherwise by Landscape Architect.

- 3.6 MOWING: Begin mowing, with sharp reel mower, when Bermuda grass reaches a height of approximately 3/4". Mow at least once per week, or more frequently if necessary so that no more than 1/3 of the leaf blade is removed at any one time.
- 3.7 WEED/PEST CONTROL: Apply herbicides when necessary to control weeds in accordance with the manufacturer's recommendations and with any applicable City, County, State or Federal government agency requirements regulating the use of herbicides.

3.8 MAINTENANCE:

- A. Maintenance shall begin immediately following the last springing operation and shall continue for a minimum 90 day period or until established turf covers 98% of area and in accordance with the following requirements.
 1. Maintain all sprigged areas keeping grass in a neat manner by watering, edging, mowing, raking clippings and leaf removal until the final acceptance of the specific field.
 2. Owner to install field barricades to protect all work from damage by other contract work.
 3. During the maintenance period, Contractor shall cut all sprigged areas, within project area, as needed to assure good field growth and pay all expenses until final acceptance of accepted field.
 4. Periodically during grow-in, a site inspection will be conducted by the Owner/Landscape Architect to determine the status of sprig grow-in.

END OF SECTION

- END OF SECTION

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IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS
⊗	Two Hunter HE-60T	360	30	2 x.12	3'

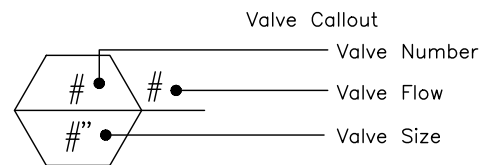
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
⊕	Hunter I-25-04 on Prefabricated 1" Swing Joint	50	13.4	56'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⊙	Hunter ICV in a 12" Valve Box Install a Nibco T113 2" Isolation Valve in a 12" Valve Box prior to each group of control valves.
⊗	Nibco T113 2-1/2" Isolation Valve in a 12" Valve Box
C	Hunter A2C-3000-PL 30 Station Controller
S	Hunter Miniclik Rain Sensor
FS	Hunter ICV-201G Master Valve And Creative Sensor Technology FSI-T20-001 in separate 12" Valve Boxes.
W	5" Well with Goulds 85GS 7.5 hp Pump

----- Irrigation Lateral Line: PVC Class 200

----- Irrigation Mainline: PVC Class 200 3"

----- Pipe Sleeve: PVC Schedule 40





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1.0 GENERAL

- 1.1 SUMMARY: Includes but not limited to:
A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.

- 1.2 SYSTEM DESCRIPTION:
A. Design Requirements:
1. Layout of Irrigation Heads:
a. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks, fences, etc.
b. During layout, consult with Landscape Architect to verify proper placement and make recommendations, where revisions are advisable.

- 1.3 QUALITY ASSURANCE:
A. Regulatory Requirements:
1. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes.
B. Pre-Installation Conference:
1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of job requirements prior to commencing work of this Section.
C. System Adjustments:
1. Minor adjustments in system will be permitted to avoid existing fixed obstructions.
2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible.
D. 1. Documentation and submittal of actual water supply performance prior to commencing installation. Irrigation contractor shall verify water meter produces a minimum of 25 gpm @ 45 psi.

- 1.4 SUBMITTALS:
A. Record Drawings:
1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final inspection. Drawing shall include:
a. Detail and dimension changes made during construction.
b. Significant details and dimensions not shown in original Bidding Documents.
2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and relevant shop drawings.
3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of the Landscape Architect and Owner.
4. As-built drawing shall be provided in PDF format.
5. Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller.
6. Final payment for system will not be authorized until accurate and complete submittals are delivered to the Landscape Architect.
B. Instruction Manual:
1. Provide instruction manual which lists complete instructions for system operation and maintenance.

- 1.5 PRODUCT STORAGE:
A. During construction and storage, protect materials from damage and prolonged exposure to sunlight.

- 1.6 WARRANTY:
A. Standard one (1) year warranty stipulated in General Conditions shall include:
1. Completed system including parts and labor.
2. Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance.
3. System adjustment to supply proper coverage to areas to receive water.

- 1.7 MAINTENANCE:
A. Extra Materials:
1. In addition to installed system, furnish Owner with the following items at close-out:
a. Two sprinkler head bodies of each size and type.
b. Two nozzles for each size and type.
c. Two adjusting keys for each sprinkler head cover type.

2.0 PRODUCTS:

- 2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS:
A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure.
B. Pipe:
1. Pressure Lines: as indicated on plans.
2. Lateral Lines: as indicated on plans.
3. Risers: sch. 80 PVC, gray
C. Fittings:
1. Schedule 40 PVC.
D. Sleeving:
1. Schedule 40 PVC.

- 2.2 SPRINKLER HEADS:
A. Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge.

- 2.3 AUTOMATIC SPRINKLER SYSTEM:
A. Control valves shall be of size and type indicated on Drawings.
B. Control wire shall be 14 gauge single strand UL listed for direct burial.
C. All wire splices shall be made with 3M-DBY wire connectors.
C. Install three spare control wires from the controller with the entire mainline.

- 2.4 VALVES:
A. Electric Valves:
1. Make and model shown on Drawings.
B. Gate valves:
1. Bronze construction, angle type, 150 pound class, threaded connections, with cross-type operating handle designed to receive operating key.
C. Automatic Controller:
1. Make and model shown on Drawings.
D. Backflow Preventor:
1. Make and model shown on Drawings.

- 2.5 VALVE ACCESSORIES:
A. Valve Boxes:
1. Armetek or Brooks rectangular heavy duty valve box with locking lid or Landscape Architect approved equal.
2. Do not install more than one (1) valve in a single box.
3. Valve boxes shall be large enough for easy removal or maintenance of valves.

3.0 EXECUTION:

- 3.1 PREPARATION:
A. Protection:
1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense.

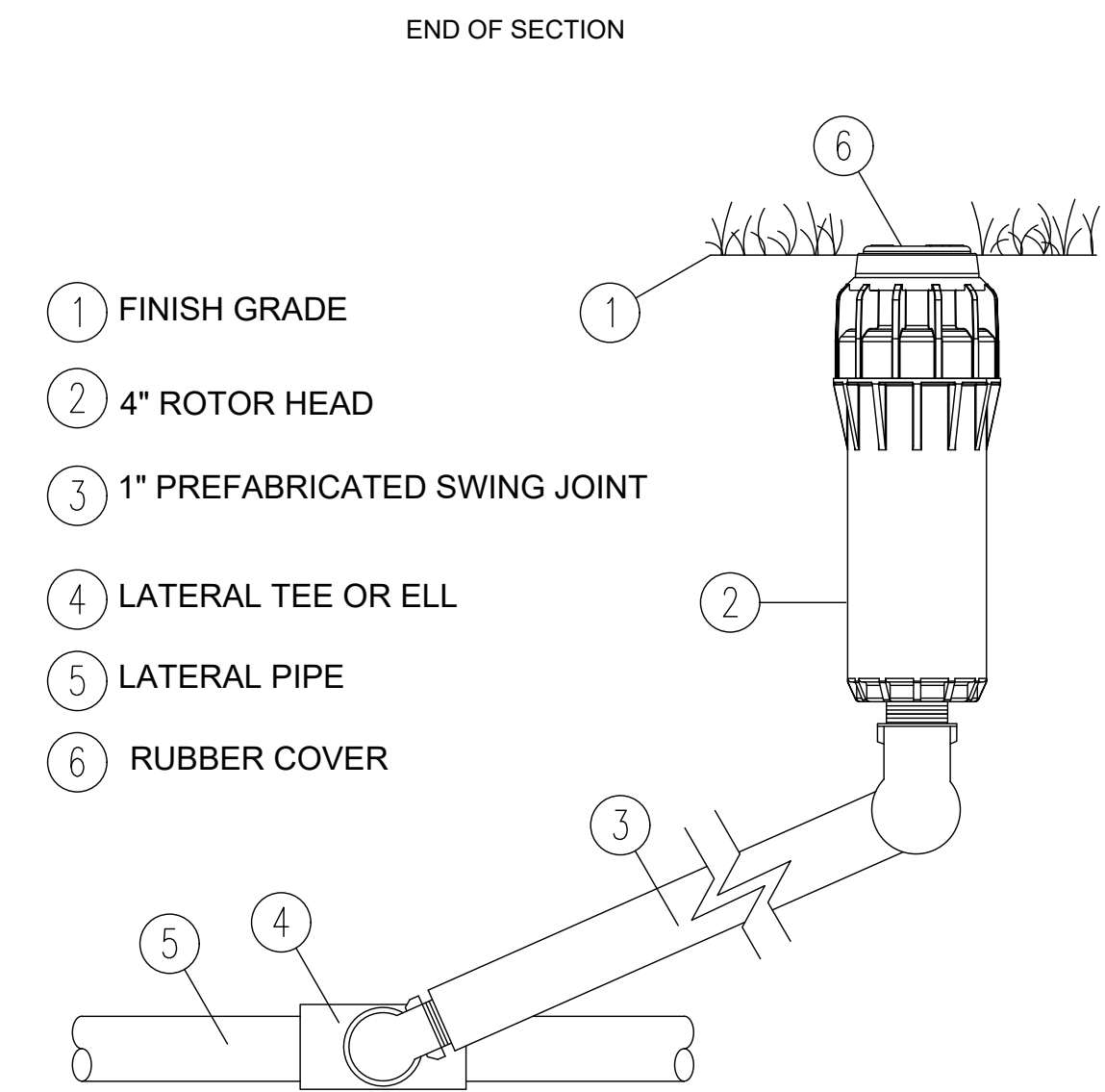
- 3.2 INSTALLATION:
A. Trenching and Backfilling:
1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine, rock-free soil or sand.
2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe.

- B. Installation of Plastic Pipe:
1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by Manufacturer.
2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of twenty four (24") inches based on finish grade. Install lateral lines with a minimum cover of eighteen (18") inches based on finish grade.
3. Install pipe and wires under driveways or parking areas in specified sleeves a minimum of eighteen (18") inches below finish grade or as shown on Drawings.
4. Locate no sprinkler head closer than twelve (12") inches from building foundation. Heads immediately adjacent to mowing strips, walks or curbs shall be one (1") inch below top of mowing strip, walk or curb and have a minimum of one (1") inch clearance between head and mowing strip, walk or curb.
5. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain approval of Landscape Architect prior to proceeding with work.
6. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will be result.
7. Make solvent weld joints in the following manner:
a. Clean mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to each.
b. Apply uniform coat of 711 solvent to outside of pipe.
c. Apply solvent to fitting in similar manner.
d. Reapply a light coat of solvent to pipe and quickly insert into fitting.
e. Give pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe is inserted to full depth of fitting socket.
f. Hold in position for fifteen (15) seconds minimum or long enough to secure joint.
g. Wipe off solvent appearing on outer shoulder of fitting.
h. Do not use an excessive amount of solvent thereby causing an obstruction to form on the inside of pipe.
i. Allow joints to set at least 24 hours before applying pressure to PVC pipe.
8. Tape threaded connection with teflon tape.
9. Install concrete thrust blocks wherever change of direction occurs a PVC main pressure lines unless otherwise detailed on Drawings.
C. Control Valves and Controller:
1. Install controller, control wires, and valves in accordance with Manufacturer's recommendations and according to applicable electrical code.
2. Install valves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at finish grade.
3. Install remote control valves in valve boxes positioned over valve so all parts of valve can be reached for service. Set cover of valve box even with finish grade.
4. Install all valve boxes over nine (9") inches of gravel for drainage.
D. Sprinkler Heads:
1. Prior to the installation of sprinkler heads, open control valves and use full head of water to flush out system.
2. Set sprinkler heads perpendicular to finish grade.
3. Set lawn sprinkler heads adjacent to existing walks, curbs, and other paved areas to grade.
F. Well:
1. The well shall be a 5" well with a Goulds 5hp submersible pump with a Goulds Aquavar SPD drive. The system shall include the installation of a pressure tank and all fittings required for a complete operating water system capable of providing 85 gpm @ 65 psi. The well shall have a Toro IT-ABF-7585-3X-N Filter with a 85 mesh screen installed at the discharge of the system. All equipment shall be installed in a Allied AE100 fiberglass enclosure.
2. The well shall be capable of providing required water quantity with the following water quality:
a. At the required flow water shall be clear and free of sand and other debris larger than .030" in diameter.
b. Water shall be considered sand free when no sample, taken during test pumping, contains more than 2 parts per million of suspended solid weight.
c. Maximum iron allowed in the water shall be less than 1.3 parts per million.
d. Maximum salt content allowed in the water shall be less than 300 parts per million.

- 3.3 ADJUSTMENT AND CLEANING:
A. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without appreciable harm. Such lowering or raising of heads shall be part of the original contract with no additional charge to the Owner.
B. Adjust sprinkler heads for proper distribution and trim to ensure spray does not fall on building.
C. Adjust watering time of valves to provide proper amounts of water to all plants.

- 3.4 Testing:
A. The irrigation contractor shall test the mainline at 100 psi for the period of two hours. The mainline shall maintain a minimum of 95 psi throughout the test. Notify the owner representative 48 hours prior to the test

- 3.5 DEMONSTRATION:
A. After system is installed and approved, instruct Owners Representative in complete operation and maintenance.



I25 BALL FIELD ROTOR HEAD

IRRIGATION DETAIL

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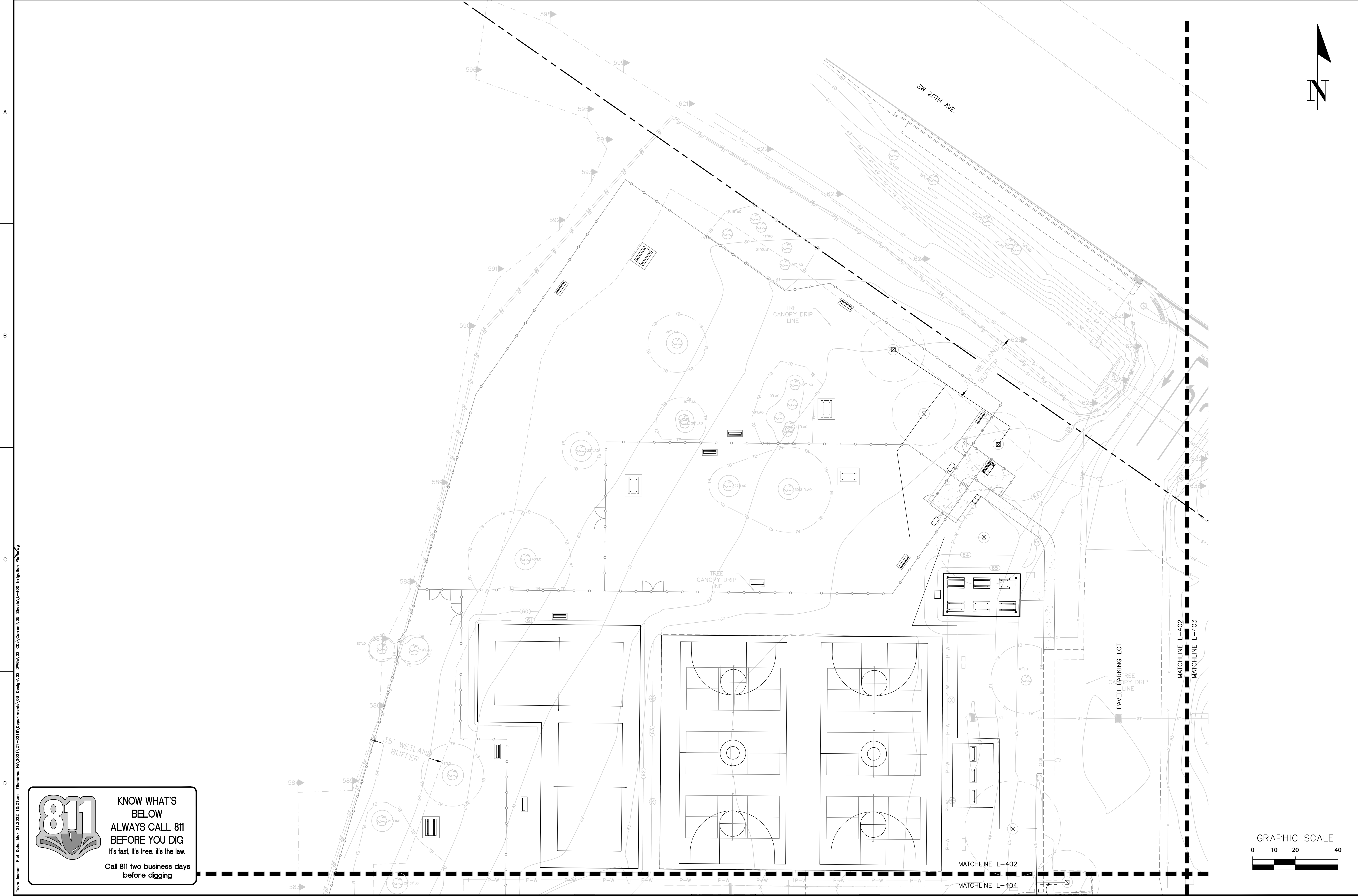
CONSTRUCTION/REV. REVISIONS

DATE: 2/20/21 100% CD'S FOR REVIEW

CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: IRRIGATION LEGEND, NOTES AND DETAILS

DESIGNER: JMS
DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

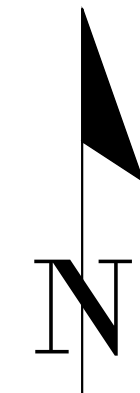
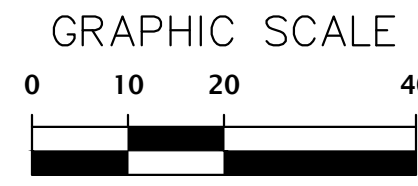
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CONSTRUCTION/REVISIONS		SHEET NO.: L-402	
CLIENT: CITY OF GAINESVILLE		PROJECT: FOREST PARK WSP	
DESIGNER: JMS		SHEET TITLE: IRRIGATION PLAN	
QUALITY CONTROL: JMS		PROJECT NUMBER: 21-0219	
CHECKED: CT		PROGRESS SET NOT FOR CONSTRUCTION	
DATE: 21-02-2021		SHEET NO.: L-402	



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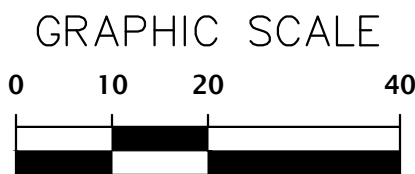
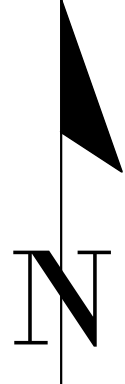
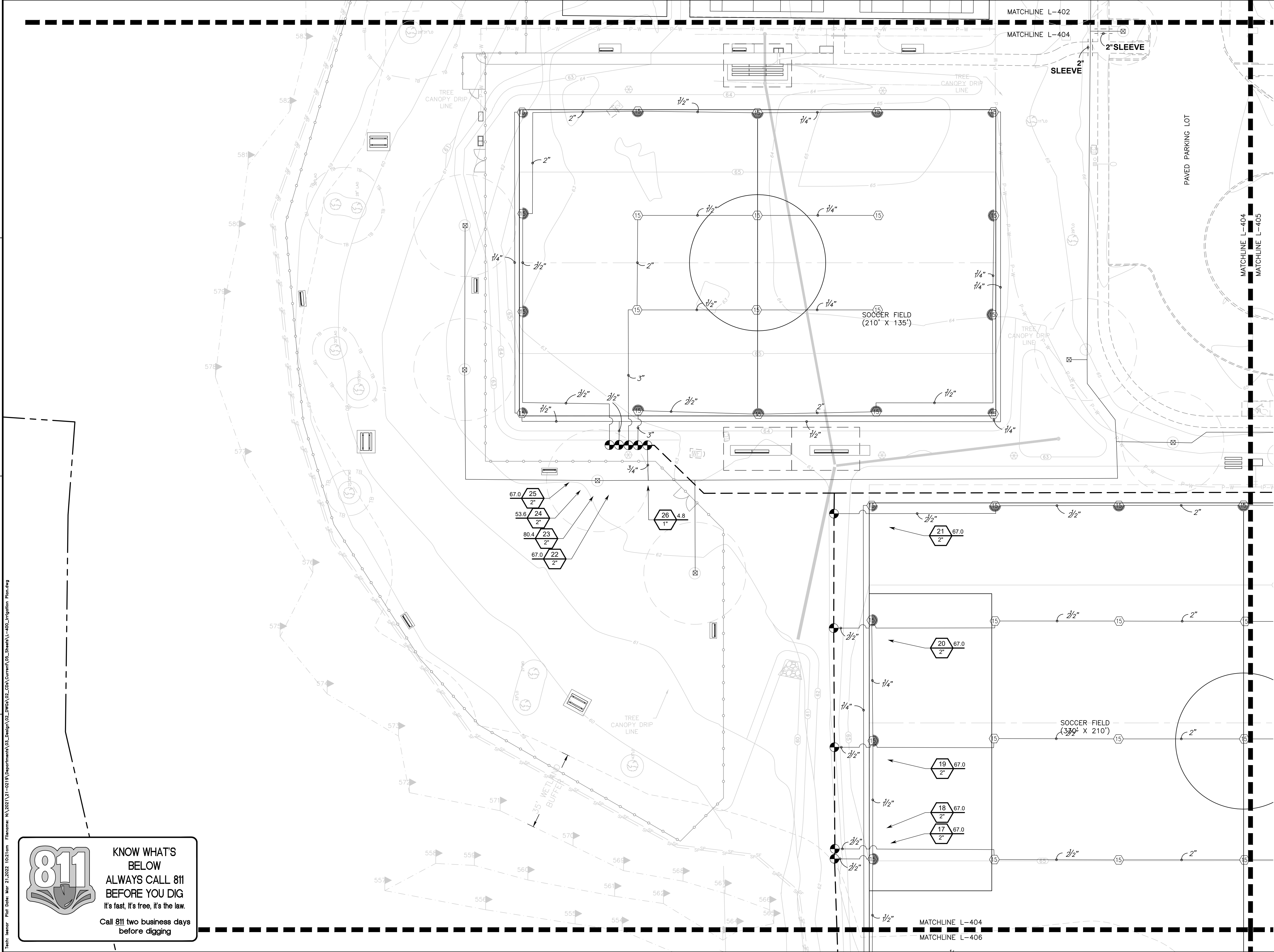
IF NOT ONE INCH ON
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CONSTRUCTION/REV REVISIONS	SUBMITTALS
	220321_1 100% CD'S FOR REVIEW

TECHNICIAN:	JIMS	CITY OF GAINESVILLE
DESIGNER:	JIMS	PROJECT:
QUALITY CONTROL:	CT	FOREST PARK WSP
PROJECT NUMBER:	21-0219	SHEET TITLE: IRRIGATION PLAN

PROGRESS SET
NOT FOR CONSTRUCTION

SHEET NO.:
L-403



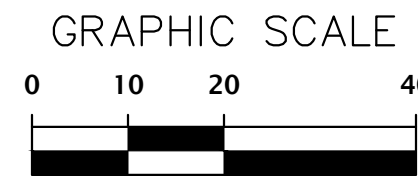
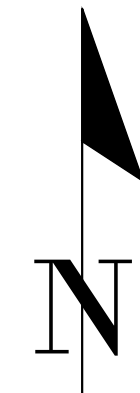
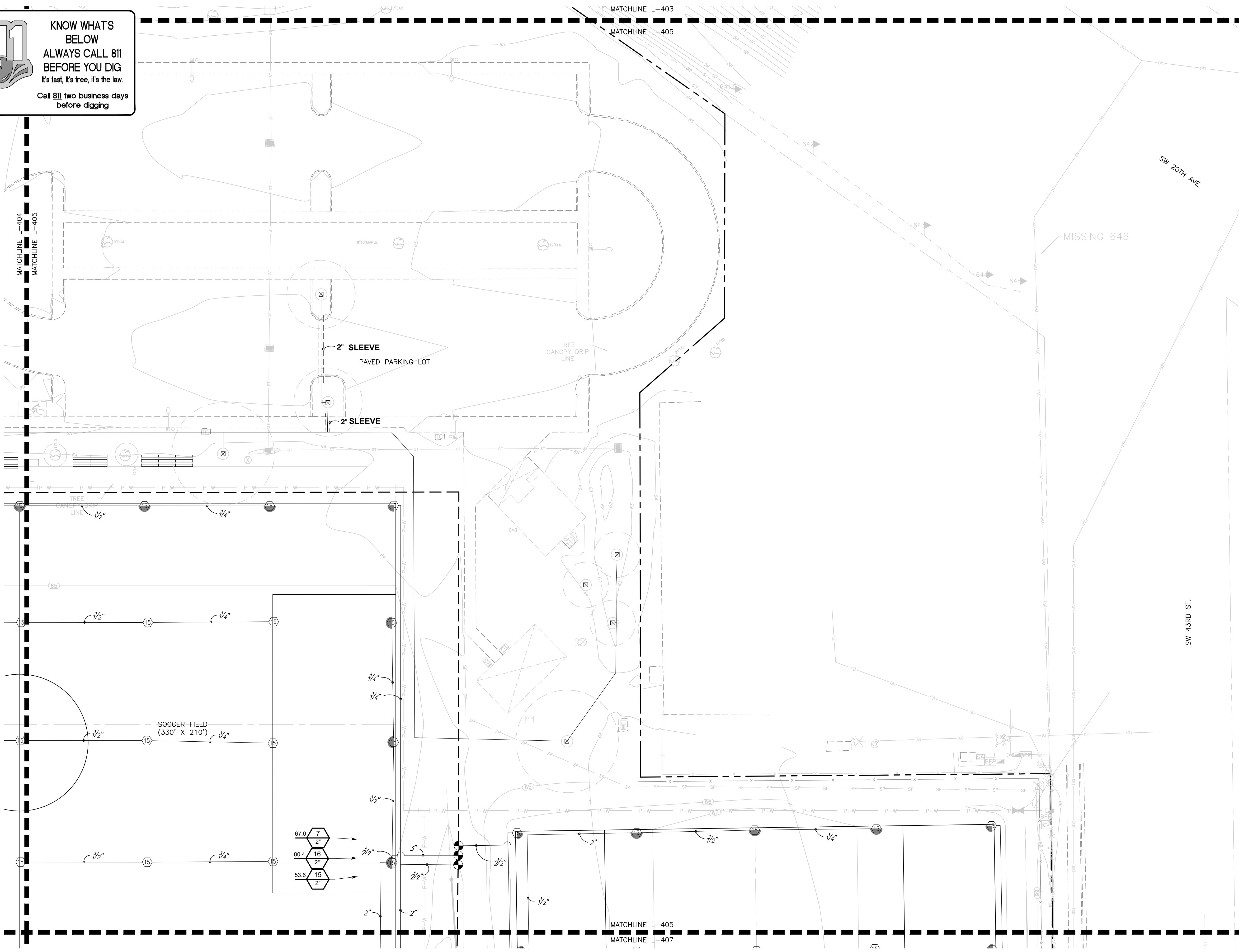
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File name: N:\2021\21-0219\Department\03_Design\02_DWG\02_CSA\Current\03_Sheet\L-404_Irrigation_Plan.dwg
Tech: JMS Date: Mar 21, 2022 10:21 am

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SCALE 1"=20'	VERIFY SCALE BASED ON SCALE ON ORIGINAL DRAWING 0"=1" MUST BE USED FOR THIS SHEET. ADJUST SCALES ACCORDINGLY.
CONSTRUCTION/REVISIONS	
COMMENTS 220321 100% CD'S FOR REVIEW	
DESIGNER JMS	CITY OF GAINESVILLE
DESIGNER JMS	FOREST PARK WSP
QUALITY CONTROL CT	PROJECT
PROJECT NUMBER 21-0219	SHEET TITLE IRRIGATION PLAN
PROGRESS SET NOT FOR CONSTRUCTION	
SHEET NO.: L-404	

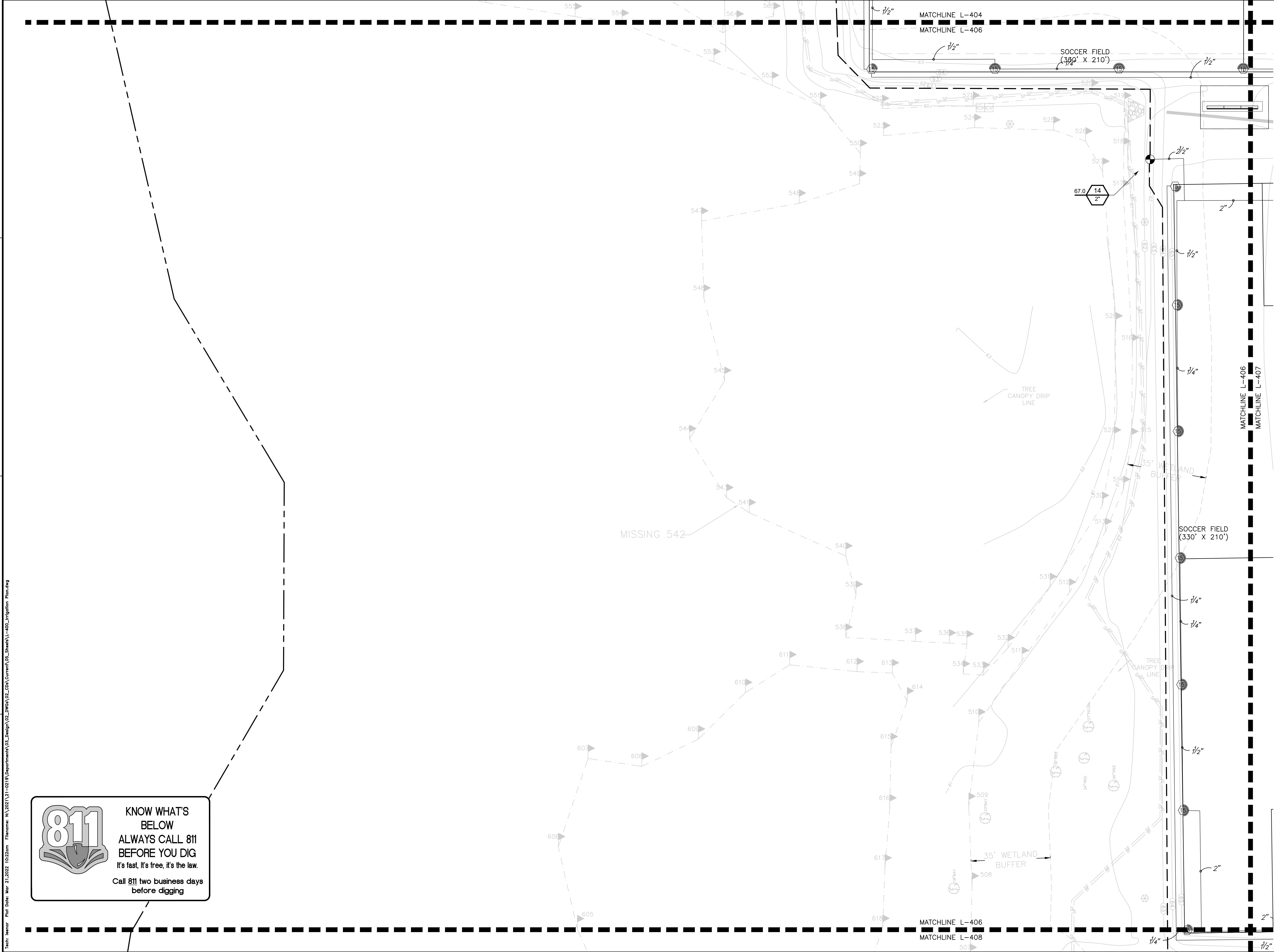


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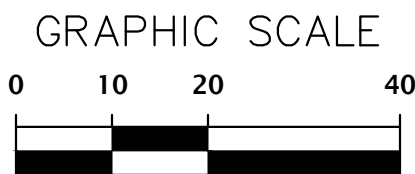
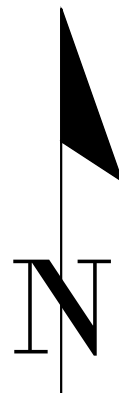
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SCALE: 1"=20'	VERIFY SCALE BASED ON SCALE ON ORIGINAL DRAWING 0 INCHES DO NOT USE ANY OTHER THIS SHEET, ADJUST SCALES ACCORDINGLY.
CONSTRUCTION/REVISIONS	
SHEET NUMBER: 21-0219	
TECHNICAL: JMS	CLIENT: CITY OF GAINESVILLE
DESIGNER: JMS	PROJECT: FOREST PARK WSP
QUALITY CONTROL: CT	SHEET TITLE: IRRIGATION PLAN
PROGRESS SET NOT FOR CONSTRUCTION	
SHEET NO.: L-405	

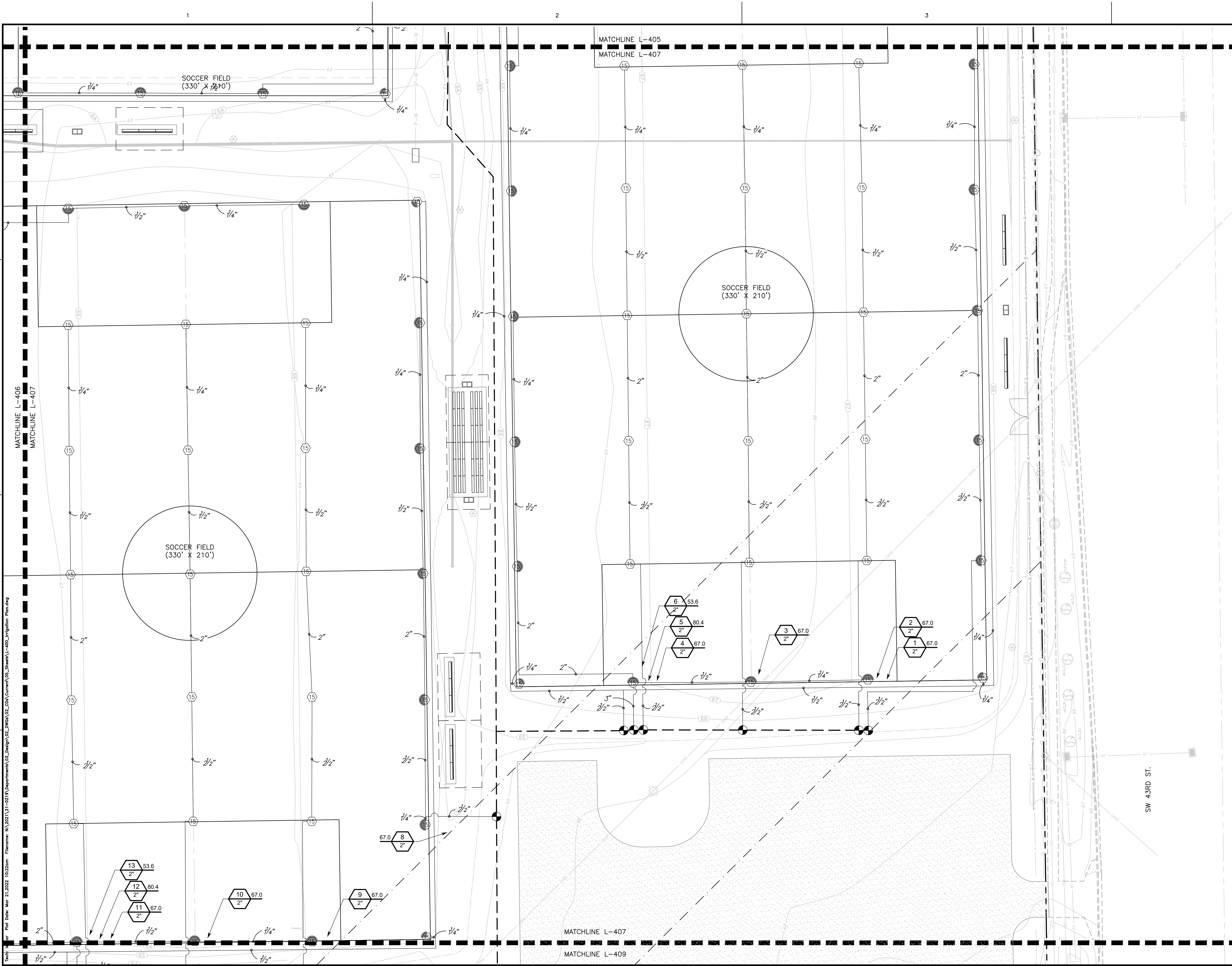


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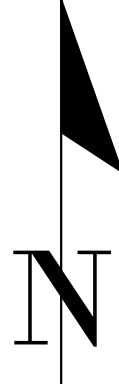
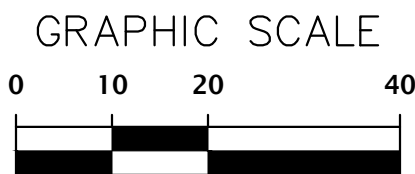
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SCALE 1"=20'	VERIFY SCALE BASED ON THE ORIGINAL DRAWING 0 1"=20' DO NOT USE FOR THIS SHEET, ADJUST SCALES ACCORDINGLY.
CONSTRUCTION/REVISIONS	
DATE/REVISION 22/03/21 100% CD'S FOR REVIEW	
CLIENT CITY OF GAINESVILLE	PROJECT FOREST PARK WSP
DESIGNER JMS	QUALITY CONTROL CT
PROJECT NUMBER 21-0219	SHEET TITLE IRRIGATION PLAN
PROGRESS SET NOT FOR CONSTRUCTION	
SHEET NO.: L-406	



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SHEET NO: L-408

PROGRESS SET
NOT FOR CONSTRUCTION

TECHNICAL: JMS
DESIGNER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: IRRIGATION PLAN

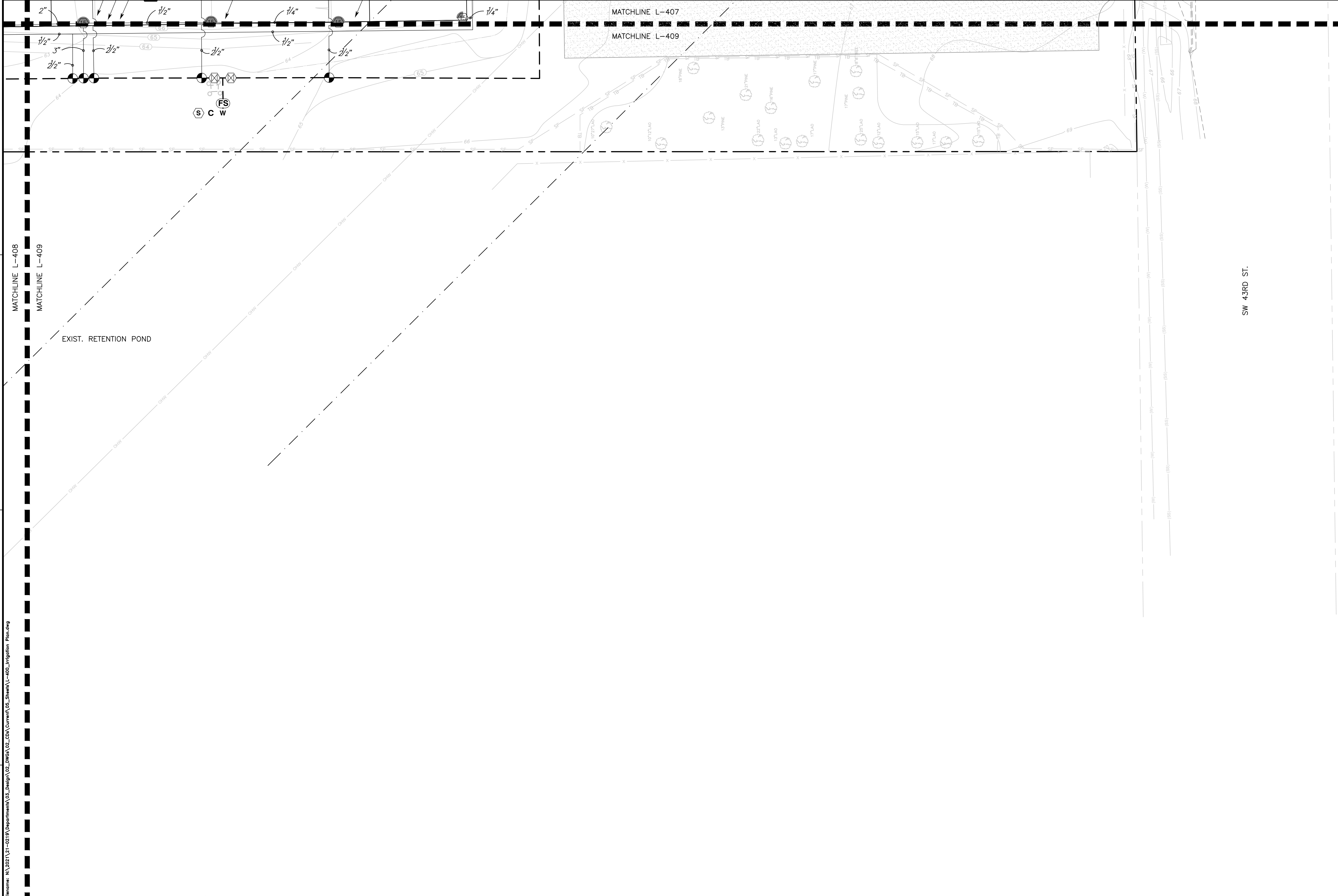
COMMENTS:
220321 100% CD'S FOR REVIEW

CONSTRUCTION/BD REVISIONS

SCALE: 1"=20'
VERIFY SCALE
BASED ON THE
ORIGINAL DRAWING
0 INCHES
1" INCHES
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SCALES ACCORDINGLY.

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1
2
3
4

A
B
C
D

SW 43RD ST.

EXIST. RETENTION POND

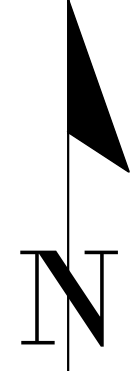
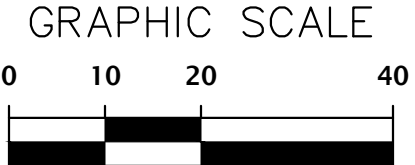
MATCHLINE L-408
MATCHLINE L-409

MATCHLINE L-407
MATCHLINE L-409

SW 43RD ST.



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TECHNICAL
JMS
DESIGNER
JMS
QUALITY CONTROL
CT
PROJECT NUMBER:
21-0219

CLIENT
CITY OF GAINESVILLE
PROJECT:
FOREST PARK WSP
SHEET TITLE
IRRIGATION PLAN

COMMENTS
220321 100% CD'S FOR REVIEW

CONSTRUCTION/REV REVISIONS

PROGRESS SET
NOT FOR CONSTRUCTION

SHEET NO.:
L-409

SCALE
1"=20'
VERIFY SCALE
BASED ON SCALE ON
ORIGINAL DRAWING
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