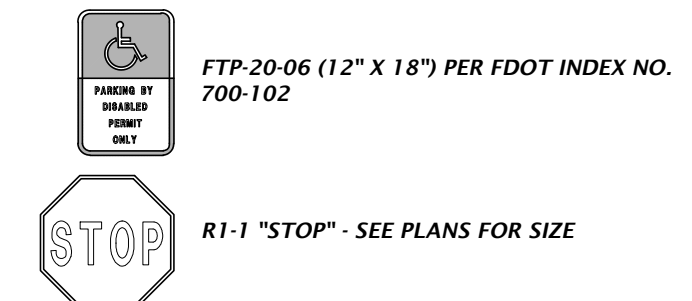


ABBREVIATIONS

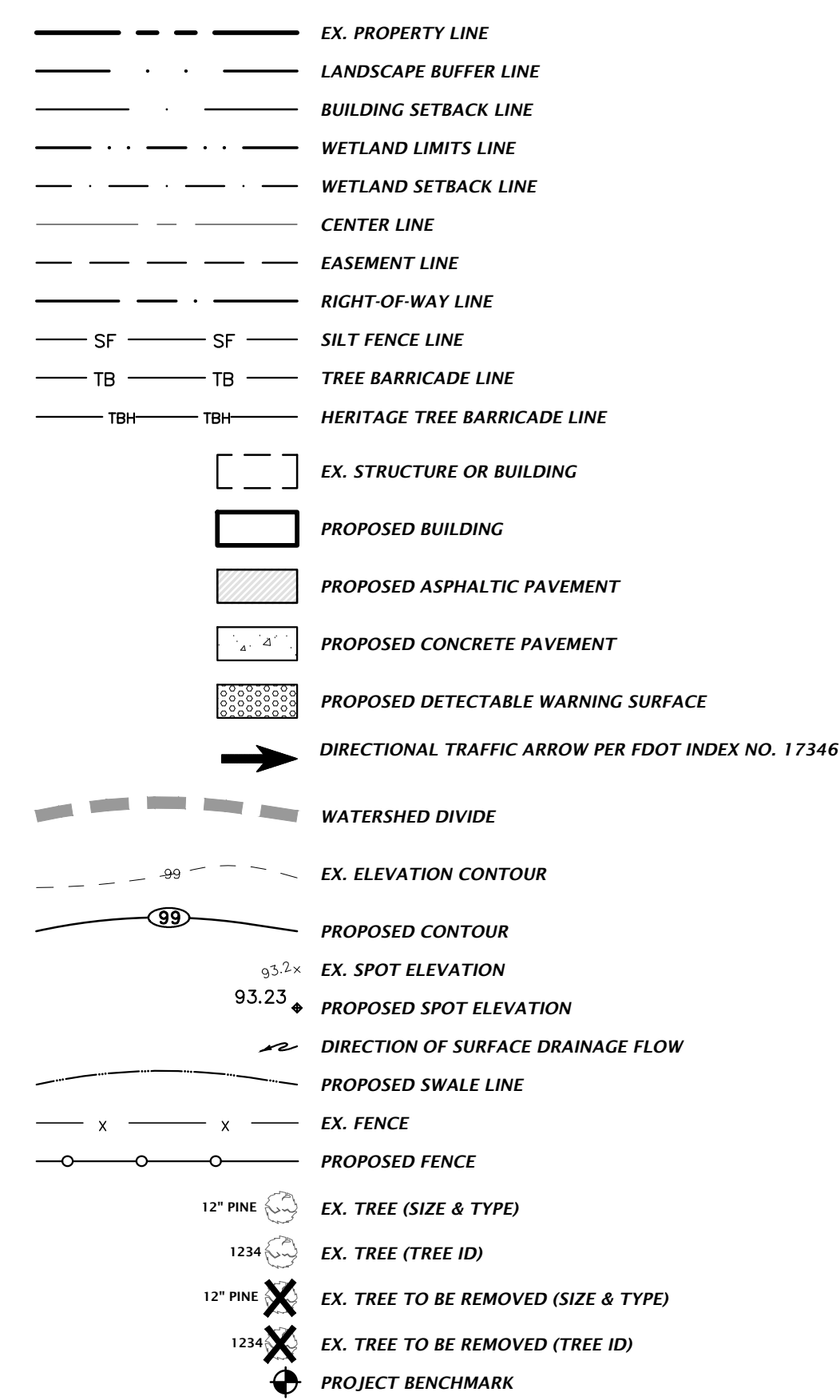
SYMBOLS	N
• FEET (WHEN USED WITH LENGTHS)	N NORTH
° DEGREES	N-E NORTHING - EASTING
′ MINUTES (WHEN USED WITH ANGLES)	N/A NOT APPLICABLE
″ SECONDS	NVA NORTH AMERICAN VERTICAL DATUM OF 1988
% PERCENT	NGVD NATIONAL GEODETIC VERTICAL DATUM OF 1929
@ AT	NO NUMBER
	NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
	NTS NOT TO SCALE
	O
AASHTO ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	OC ON CENTER
AC ACRES	OHW OVERHEAD WIRE
ADA AMERICAN WITH DISABILITIES ACT	ORR OFFICIAL RECORDS BOOK
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ARCH ARCHITECT	
ARV AIR RELEASE VALVE	
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	
AWWA AMERICAN WATER WORKS ASSOCIATION	
	P
	PAVT PAVEMENT
	PCC POINT OF CURVATURE
	PC POINT OF COMPOUND CURVE
BC BACK OF CURB	PE POLYETHYLENE
BFP BACKFLOW PREVENTER	PERF PERFORATED
BLDG BUILDING	PROP PROPOSED
BM BENCHMARK	PT POINT OF TANGENCY
BMP BEST MANAGEMENT PRACTICE	PVC POLYVINYL CHLORIDE
BOC BACK OF CURB	PUE PUBLIC UTILITY EASEMENT
BVCS BEGIN VERTICAL CURVE STATION	PVI POINT OF VERTICAL INTERSECTION
BVCE BEGIN VERTICAL CURVE ELEVATION	
BW BOTTOM OF WALL	
BSL BUILDING SETBACK LINE	
	R
	R RADIUS
	RCP REINFORCED CONCRETE PIPE
	RPM RAISED REFLECTIVE PAVEMENT MARKER
	RPZ REDUCED PRESSURE ZONE
	RT RIGHT
	RWM RECLAIMED WATER MAIN
	R/W RIGHT-OF-WAY
	S
	S SOUTH
	SAN SANITARY
	SHWE SEASONAL HIGH WATER ELEVATION
	SF SILT FENCE
	SL SLOPE
	SP SUPERPAVE
	SR STATE ROAD
	SS SANITARY SEWER
	ST STORM
	ST STATION
	STD STANDARD
	T
	TB TREE BARRICADE
	TCE TEMPORARY CONSTRUCTION EASEMENT
	TEMP TEMPORARY
	TOB TOP OF BANK
	TV TELEVISION
	TW TOP OF WALL
	TYP TYPICAL
	U
	USF UNITED STATES FOUNDRY
	USGS UNITED STATES GEOLOGICAL SURVEY
	UTIL UTILITY
	V
	V VERTICAL
	VC VERTICAL CURVE
	VCP VITRIFIED CLAY PIPE
	W
	W WEST
	W WATER
	W WITH
	WM WATER MAIN
	WW WASTEWATER
	WWF WELDED WIRE FABRIC
	G
	GALV GALVANIZED
	GM GAS MAIN
	GV GATE VALVE
	H
	HDPE HIGH DENSITY POLYETHYLENE
	HP HIGH POINT
	I
	ID IDENTIFICATION
	INV INVERT
	INV EL INVERT ELEVATION
	IP IRON PIPE
	K
	K VERTICAL CURVE RATE OF CHANGE
	L
	L LENGTH
	LA LANDSCAPE ARCHITECT
	LBR LIMESTONE BEARING RATIO
	LDR LAND DEVELOPMENT REGULATION
	LF LINEAR FEET
	LP LOW POINT
	LT LEFT
	M
	MAX MAXIMUM
	ME MATCH EXISTING
	MH MANHOLE
	MIN MINIMUM
	MISC MISCELLANEOUS
	MJ MECHANICAL JOINT
	MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

SIGNAGE

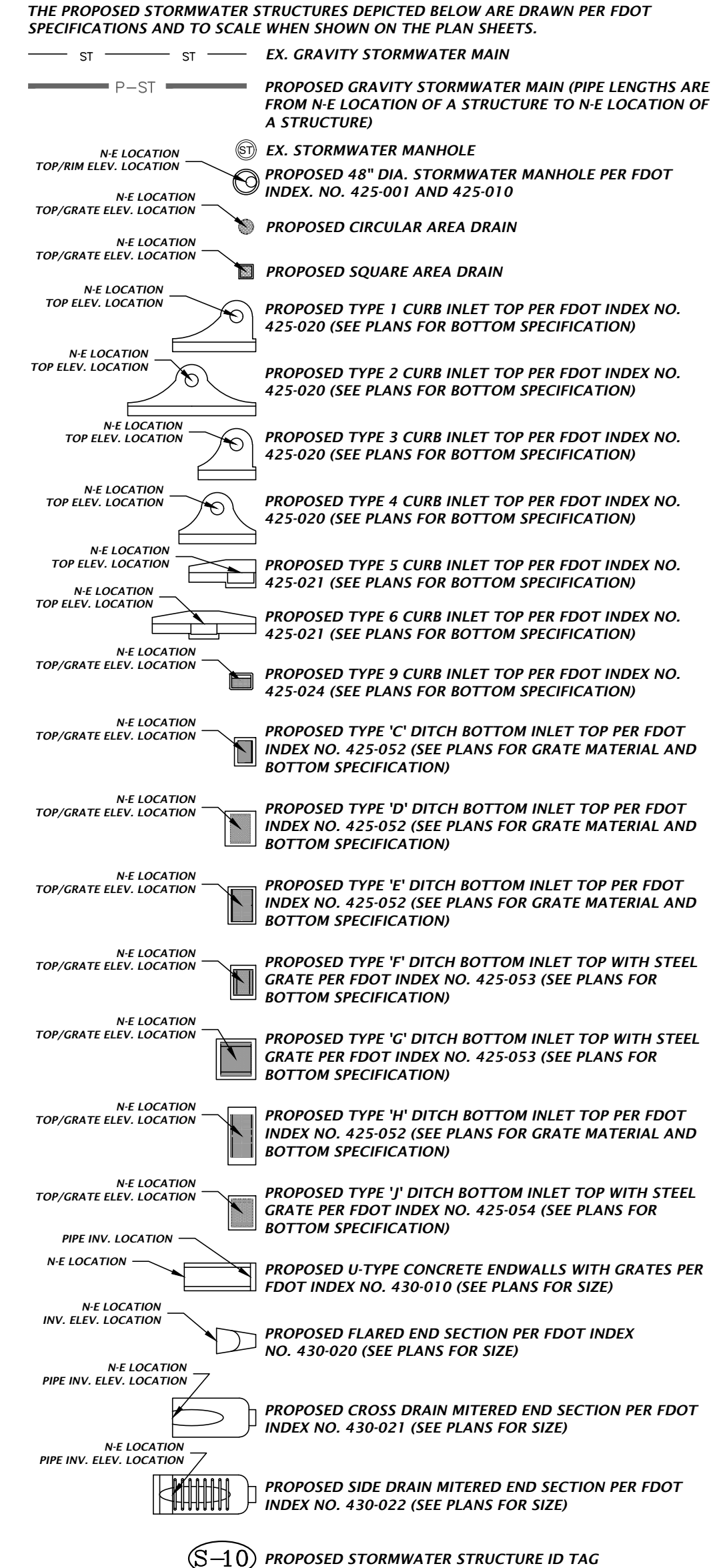
SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.



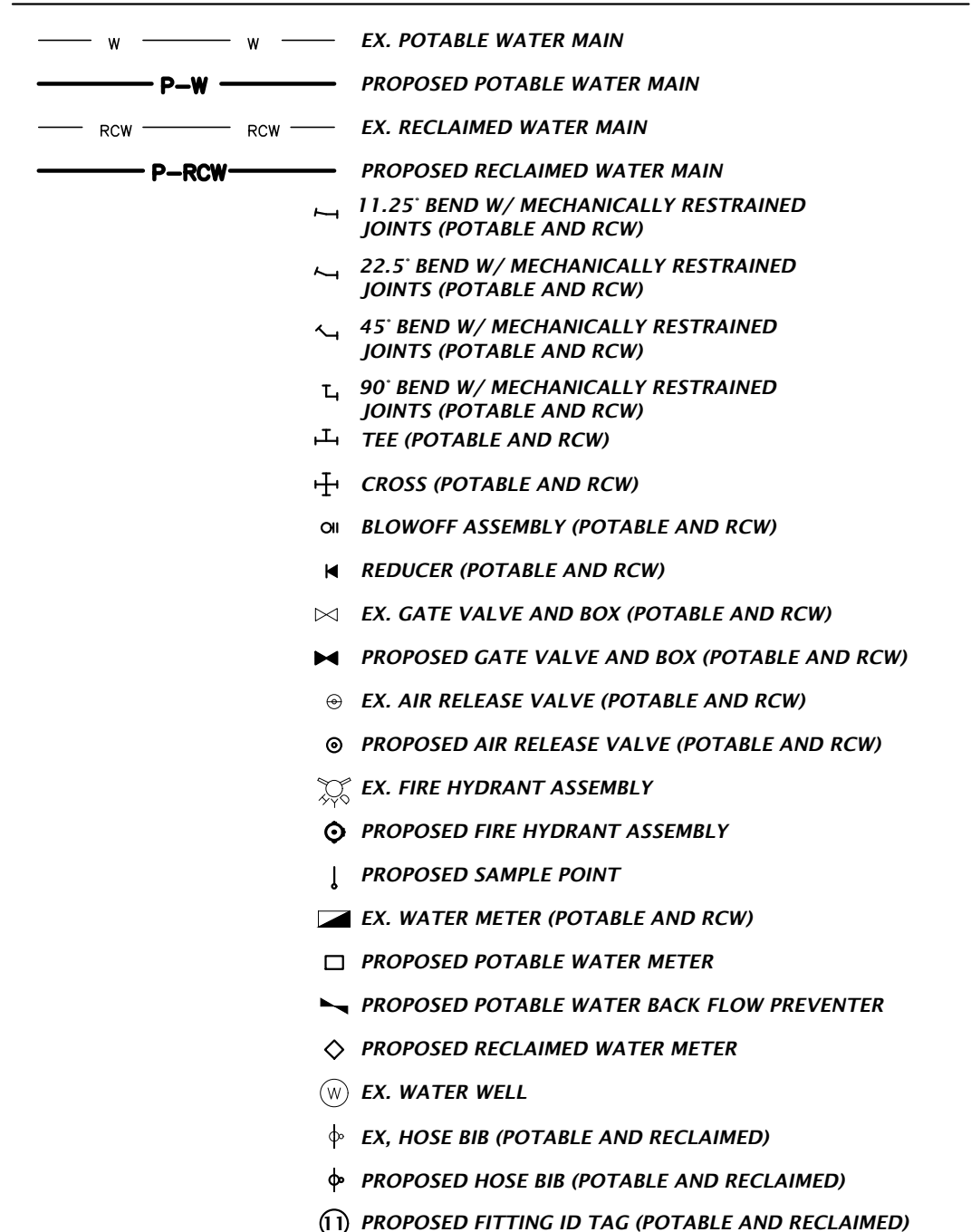
SITE INFORMATION



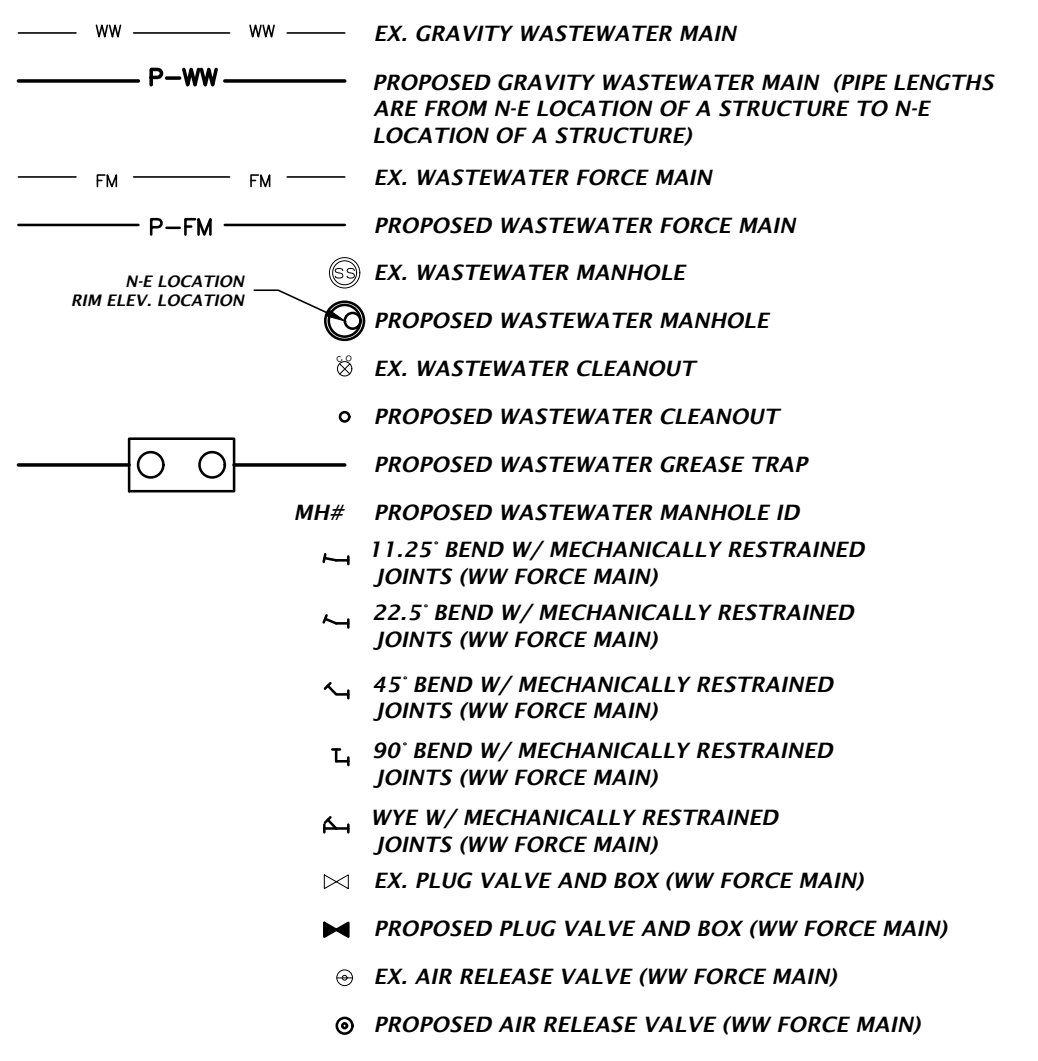
STORMWATER



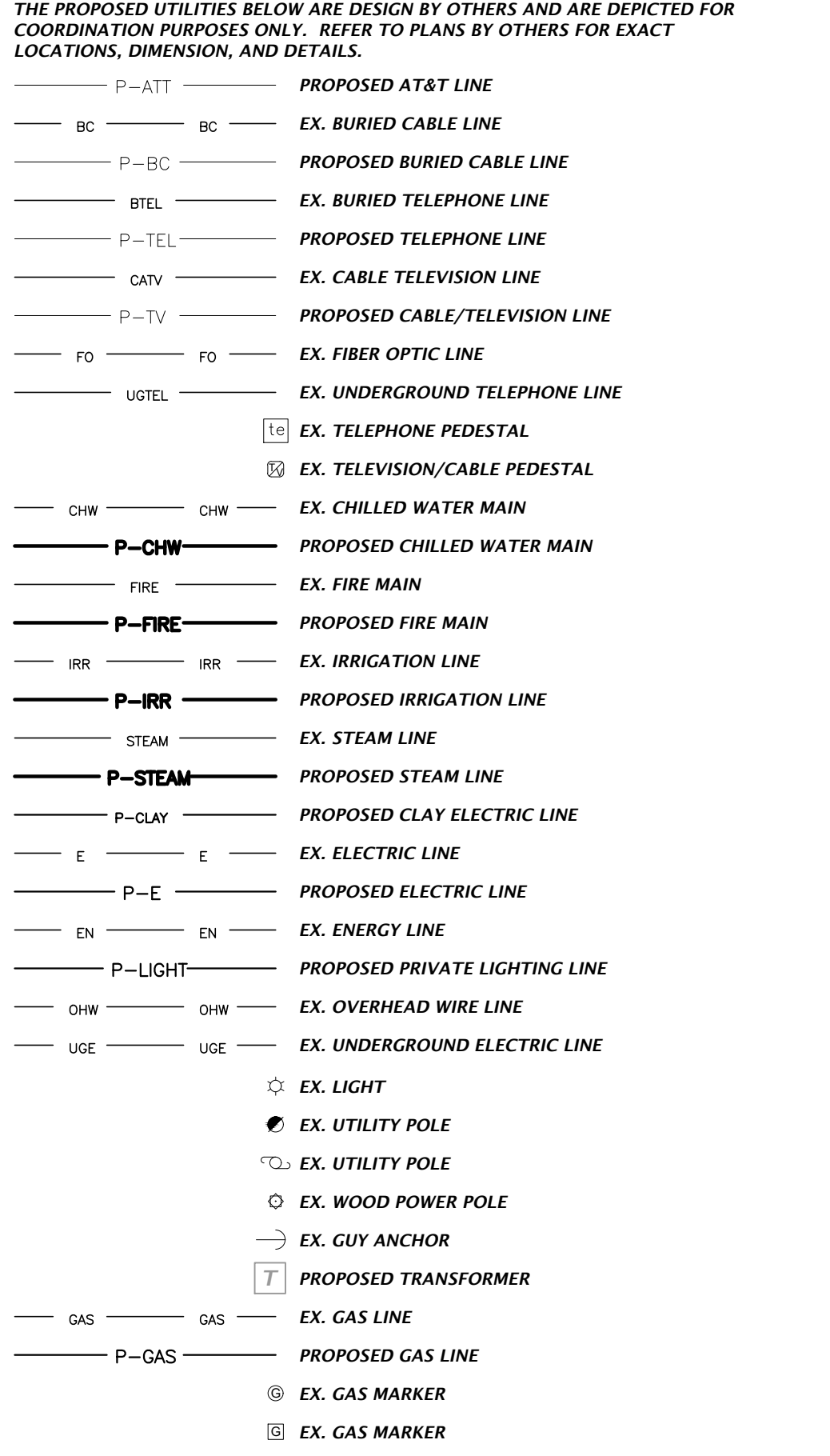
POTABLE AND RECLAIMED WATER



WASTEWATER



MISCELLANEOUS UTILITIES



NOTES:
1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.
2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

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Alachua, Florida 32615
(352) 351-1976
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est. 1988 FLORIDA
CA-5075

Professional Consultants

SCALE: N/A

DATE: 10/06/2022

PROJECT: FOREST PARK WSP

SHEET TITLE: LEGEND

PROJECT NUMBER: 21-0219

TRAVIS J. HASTAY

FL PE No. 84295

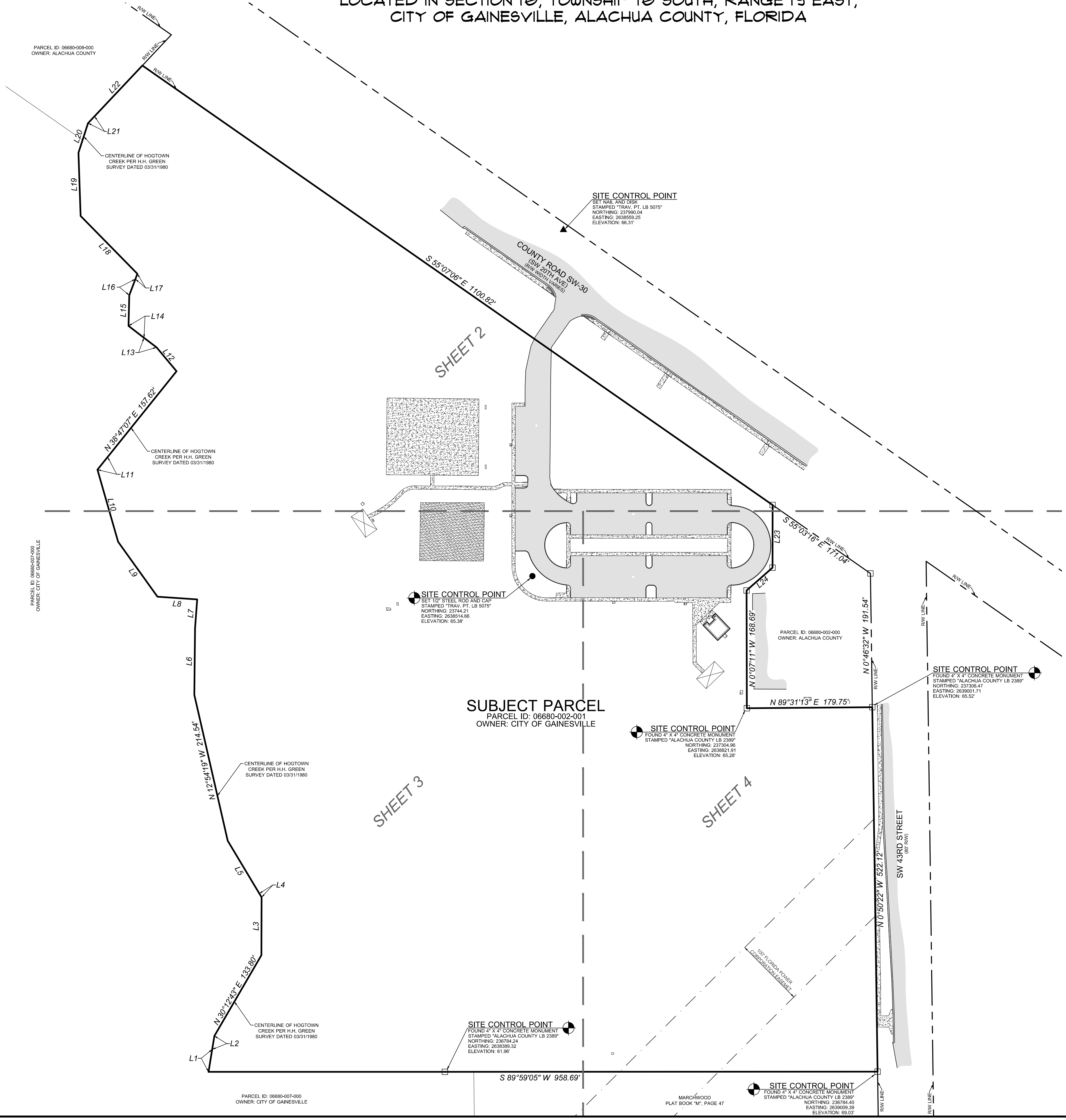
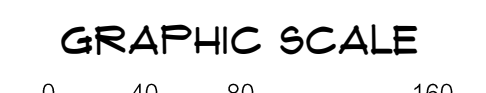
SHEET NO. C0.11

SURVEYOR'S NOTES:

- BOUNDARY INFORMATION SHOWN HEREON IS BASED ON A PRIOR SURVEY PREPARED BY ENG DENMAN & ASSOCIATES FOR ALACHUA COUNTY PUBLIC WORKS DIVISION, UNDER PROJECT NUMBER 02-116, DATES FEBRUARY 12, 2002.
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TOPOGRAPHIC SURVEY OF FOREST PARK

LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST,
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA



LINE	DIRECTION	LENGTH
L1	N 8° 14' 12" E	22.87
L2	N 8° 14' 12" E	19.82
L3	N 0° 12' 34" E	52.93
L4	N 30° 56' 50" W	6.34
L5	N 30° 56' 50" W	88.01
L6	N 0° 40' 52" E	55.64
L7	N 4° 13' 43" E	41.10
L8	N 86° 06' 46" W	57.05
L9	N 35° 39' 30" W	96.79
L10	N 15° 56' 44" W	107.50
L11	N 38° 47' 07" E	23.18
L12	N 39° 59' 02" W	44.65
L13	N 52° 36' 11" W	22.58
L14	N 52° 36' 11" W	27.96
L15	N 1° 25' 20" E	43.95
L16	N 20° 45' 11" E	24.82
L17	N 20° 45' 11" E	8.04
L18	N 44° 29' 59" W	116.04
L19	N 1° 54' 18" W	90.59
L20	N 17° 53' 56" E	44.65
L21	N 43° 18' 48" E	13.51
L22	N 43° 18' 48" E	99.93
L23	N 0° 03' 55" E	89.65
L24	N 48° 43' 38" E	49.57

- LEGEND:**
- = BENCHMARK
 - = FOUND 4"x4" CONCRETE MONUMENT STAMPED "ALACHUA COUNTY LB 2389"
 - = SET NAIL AND DISK STAMPED "CHW PCP LB 5075"
 - = SET 5/8" STEEL REBAR AND CAP MARKED "CHW INC LB 5075"
 - = CLEANOUT
 - = METAL POWER POLE
 - = ELECTRIC HANDHOLE
 - = ELECTRIC METER
 - = FIBER OPTIC BOX
 - = GUY ANCHOR
 - = BACKFLOW PREVENTOR
 - = FIRE HYDRANT
 - = IRRIGATION CONTROL VALVE
 - = GAS METER
 - = GAS VALVE
 - = SIGN
 - = TREE (SIZE AND TYPE AS NOTED)
 - = SANITARY SEWER MANHOLE
 - = WOODEN POWER POLE
 - = WATER VALVE
 - = WATER METER
 - = STORM INLET
 - = CURB INLET
 - = BOLLARD
 - = BIKE RACK
 - = TRASH RACK
 - = UTILITY EASEMENT
 - = SEPTIC ALARM
 - = MEMORIAL STONE
 - = WATER FOUNTAIN
 - = WETLAND FLAG AND DESIGNATION NUMBER (FLAGGED BY OTHERS)
 - = ASPHALT SURFACE
 - = CONCRETE SURFACE
 - = OVERHEAD WIRE
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RCP = REINFORCED CONCRETE PIPE
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SHO = SHULMARD OAK
TREE = UNKNOWN SPECIES
CYP = CYPRESS
WO = WATER OAK
MAP = MAPLE
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CA-5075

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SCALE: 1" = 80'
GRAPHIC SCALE
0 40 80 160

CITY OF GAINESVILLE

DATE: 06/02/21
REVISION DATE: N/A
PROJECT NUMBER: 21-0219
FIELD BOOK & PAGE: 615-1

THIS MAP PREPARED BY:
AARON H. HICKMAN
Certificate of Authorization No. LB 5075
NOT VALID WITHOUT THE ORIGINAL
SIGNATURE AND SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

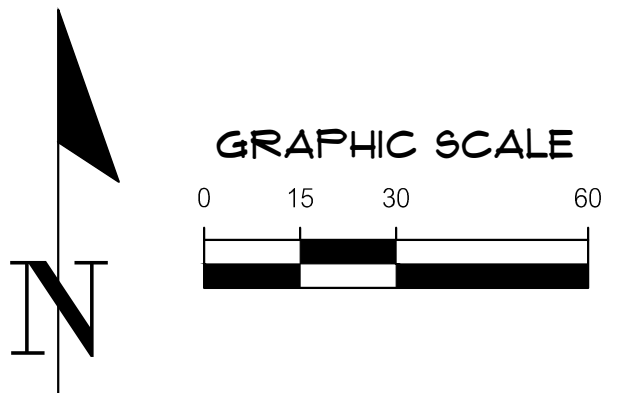
Professional Surveyor & Mapper Fla. License No. 6791

SHEET NO. 1 OF 4

Tech: Aaron Hickman Plot Date: Jun 14, 2021, 2:09pm Theme: N:\2021\21-0219\topomaps\A\01_Survey\DWG\3-0219_10D0.dwg

TOPOGRAPHIC SURVEY OF FOREST PARK

LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 13 EAST,
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA



- SURVEYOR'S NOTES:**
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LEGEND:

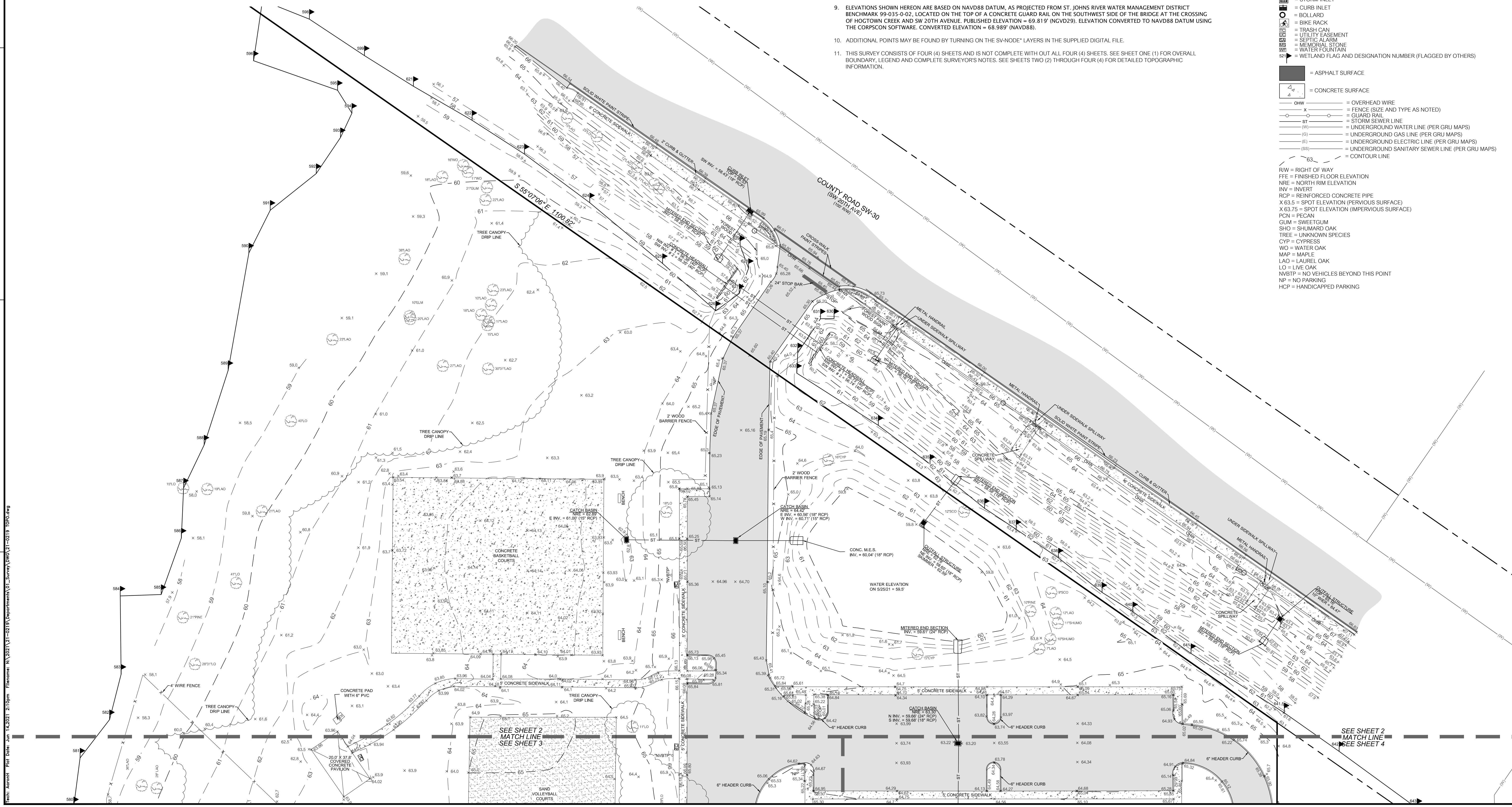
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- = MEMORIAL STONE
- = WATER FOUNTAIN
- = WETLAND FLAG AND DESIGNATION NUMBER (FLAGGED BY OTHERS)

Surface and Utility Symbols:

- = ASPHALT SURFACE
- = CONCRETE SURFACE
- = OVERHEAD WIRE
- = FENCE (SIZE AND TYPE AS NOTED)
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Other Symbols:

- = RW = RIGHT OF WAY
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Title: Acronit Plot Date: Jun 14, 2021 2:18pm Filename: N:\2021\31-0219\Acronit\31-0219_Topo.dwg
 Plot Date: Jun 14, 2021 2:18pm

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SCALE: 1" = 30'

NO SCALE
BASE IS ONE INCH ON ORIGINAL DRAWING
0 INCHES PER INCH ON THIS SHEET. ADJUST SCALES ACCORDINGLY.

CITY OF GAINESVILLE

DESIGNED BY:	AARON H. HICKMAN	SURVEY DATE:	06/02/2021	REVISION DATE:	N/A
CREW CHIEF:	JIM	CHECKED BY:	AHH	PROJECT NUMBER:	21-0219
FIELD BOOK & PAGE:					015-1

This map prepared by:
AARON H. HICKMAN
Certificate of Authorization No. LB 5075

SEE SHEET 1 OF 4

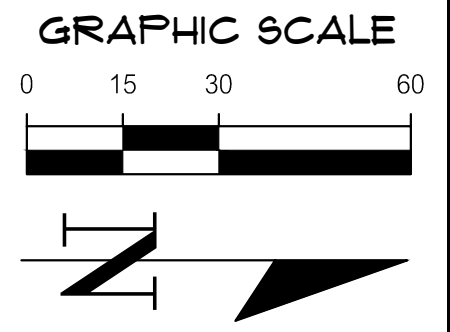
Professional Surveyor & Mapper Fla. License No. 6791

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

SHEET NO. 2 OF 4

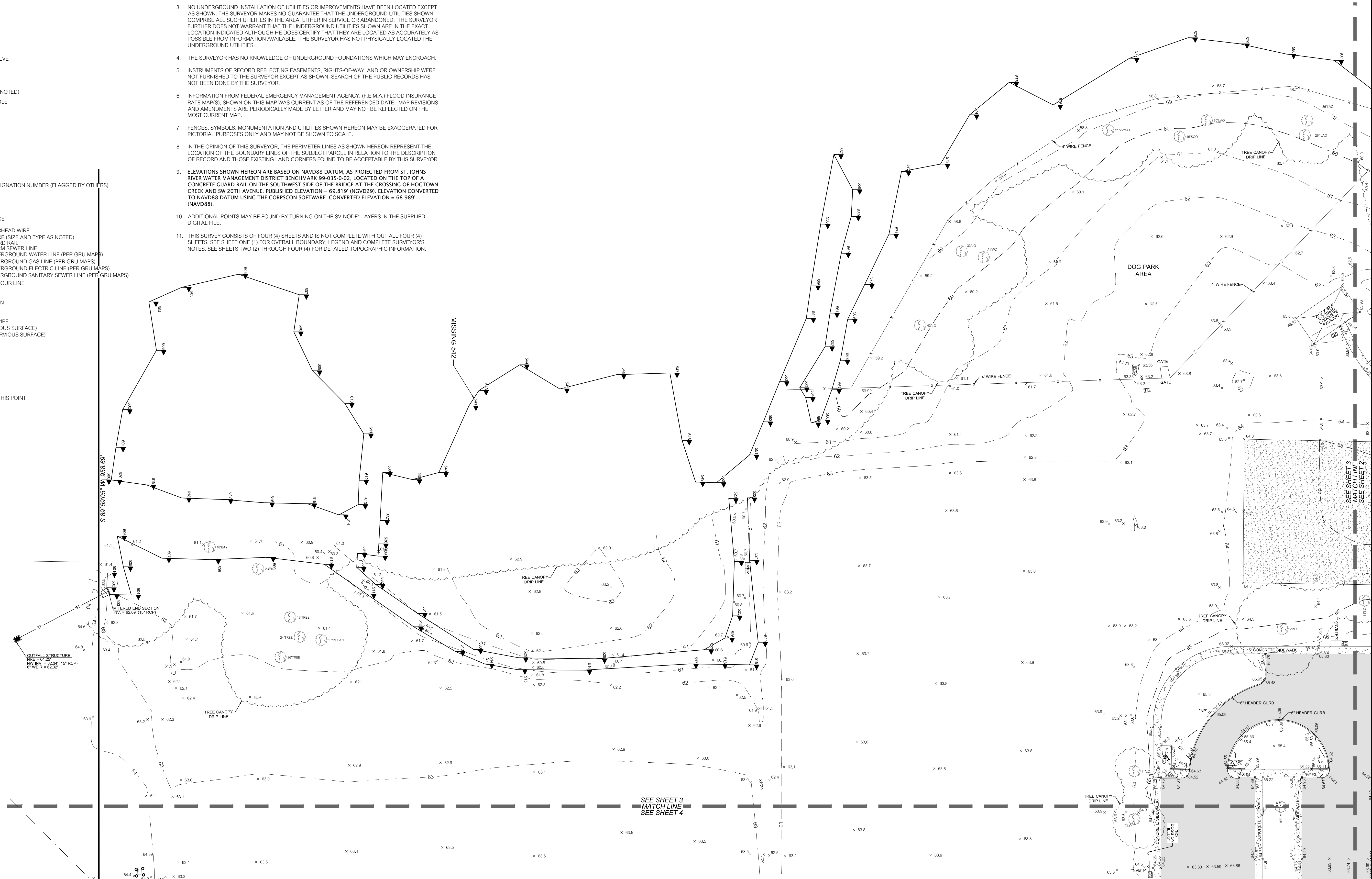
TOPOGRAPHIC SURVEY OF FOREST PARK

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 6. INFORMATION FROM FEDERAL EMERGENCY MANAGEMENT AGENCY, (F.E.M.A.) FLOOD INSURANCE RATE MAP(S), SHOWN ON THIS MAP WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.
 7. FENCES, SYMBOLS, MONUMENTATION AND UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
 8. IN THE OPINION OF THIS SURVEYOR, THE PERIMETER LINES AS SHOWN HEREON REPRESENT THE LOCATION OF THE BOUNDARY LINES OF THE SUBJECT PARCEL IN RELATION TO THE DESCRIPTION OF RECORD AND THOSE EXISTING LAND CORNERS FOUND TO BE ACCEPTABLE BY THIS SURVEYOR.
 9. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM, AS PROJECTED FROM ST. JOHNS RIVER WATER MANAGEMENT DISTRICT BENCHMARK 99-035-0-02, LOCATED ON THE TOP OF A CONCRETE GUARD RAIL ON THE SOUTHWEST SIDE OF THE BRIDGE AT THE CROSSING OF HOGTOWN CREEK AND SW 20TH AVENUE. PUBLISHED ELEVATION = 69.81' (NGVD29). ELEVATION CONVERTED TO NAVD88 DATUM USING THE CORPSCON SOFTWARE. CONVERTED ELEVATION = 68.98' (NAVD88).
 10. ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE SV-NODE[®] LAYERS IN THE SUPPLIED DIGITAL FILE.
 11. THIS SURVEY CONSISTS OF FOUR (4) SHEETS AND IS NOT COMPLETE WITH OUT ALL FOUR (4) SHEETS. SEE SHEET ONE (1) FOR OVERALL BOUNDARY, LEGEND AND COMPLETE SURVEYOR'S NOTES. SEE SHEETS TWO (2) THROUGH FOUR (4) FOR DETAILED TOPOGRAPHIC INFORMATION.



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CITY OF GAINESVILLE

DESIGNER	DATE
CHECKED BY	DATE
PROJECT NUMBER	DATE
FIELD BOOK & PAGE	DATE

AARON H. HICKMAN
SEE SHEET 1 OF 4

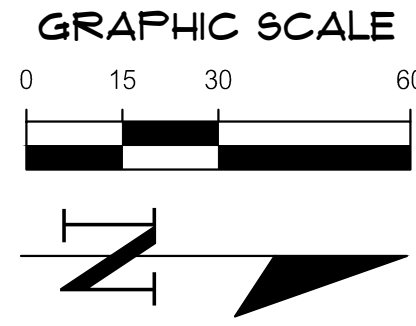
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SIGNATURE AND SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

SHEET NO. 3 OF 4

Tech: Aaron Hickman Plot Date: Jun 14, 2021 2:10pm Theme: N:\2021\21-0219\Upstream\A\0_Survey\DWG\21-0219_10D0.dwg

TOPOGRAPHIC SURVEY OF FOREST PARK

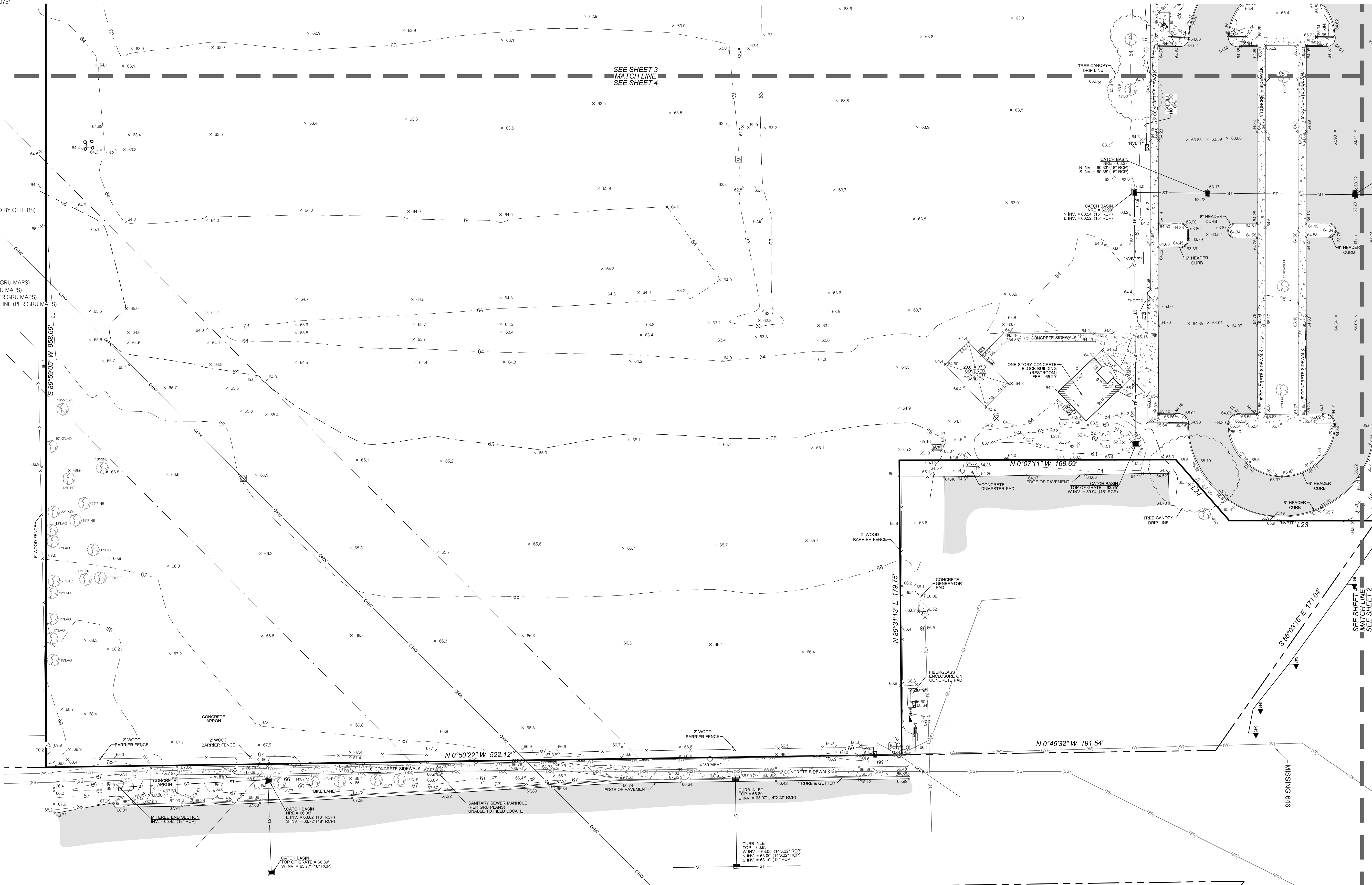
LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST,
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA



- LEGEND:**
- ◻ = BENCHMARK
 - ◻ = FOUND 4"x4" CONCRETE MONUMENT STAMPED "ALACHUA COUNTY LB 2389"
 - ◻ = SET NAIL AND DISK STAMPED "CHW PCP LB 5075"
 - ◻ = SET 5/8" STEEL REBAR AND CAP MARKED "CHW INC LB 5075"
 - = CLEANOUT
 - ⊕ = METAL POWER POLE
 - ⊕ = ELECTRIC HANDHOLE
 - ⊕ = ELECTRIC METER
 - ⊕ = FIBER OPTIC BOX
 - ⊕ = GUY ANCHOR
 - ⊕ = BACKFLOW PREVENTOR
 - ⊕ = FIRE HYDRANT
 - ⊕ = IRRIGATION CONTROL VALVE
 - ⊕ = GAS METER
 - ⊕ = GAS VALVE
 - ⊕ = SIGN
 - ⊕ = TREE (SIZE AND TYPE AS NOTED)
 - ⊕ = SANITARY SEWER MANHOLE
 - ⊕ = WOODEN POWER POLE
 - ⊕ = WATER VALVE
 - ⊕ = WATER METER
 - ⊕ = STORM INLET
 - ⊕ = CURB INLET
 - ⊕ = BOLLARD
 - ⊕ = BIKE RACK
 - ⊕ = TRASH CAN
 - ⊕ = UTILITY EASEMENT
 - ⊕ = SEPTIC ALARM
 - ⊕ = MEMORIAL STONE
 - ⊕ = WATER FOUNTAIN
 - ⊕ = WETLAND FLAG AND DESIGNATION NUMBER (FLAGGED BY OTHERS)

- ◻ = ASPHALT SURFACE
- ◻ = CONCRETE SURFACE
- = OVERHEAD WIRE
- = FENCE (SIZE AND TYPE AS NOTED)
- = GUARD RAIL
- = STORM SEWER LINE
- = UNDERGROUND WATER LINE (PER GRU MAPS)
- = UNDERGROUND GAS LINE (PER GRU MAPS)
- = UNDERGROUND ELECTRIC LINE (PER GRU MAPS)
- = UNDERGROUND SANITARY SEWER LINE (PER GRU MAPS)
- = CONTOUR LINE
- RW = RIGHT OF WAY
- FFE = FINISHED FLOOR ELEVATION
- NRE = NORTH RIM ELEVATION
- INV = INVERT
- RCP = REINFORCED CONCRETE PIPE
- X 63.5 = SPOT ELEVATION (PERVIOUS SURFACE)
- X 63.75 = SPOT ELEVATION (IMPERVIOUS SURFACE)
- PCN = PECAN
- GUM = SWEETGUM
- SHO = SHUMARD OAK
- TREE = UNKNOWN SPECIES
- CYP = CYPRESS
- WO = WATER OAK
- MAP = MAPLE
- LAO = LAUREL OAK
- LO = LIVE OAK
- NVBP = NO VEHICLES BEYOND THIS POINT
- NP = NO PARKING
- HCP = HANDICAPPED PARKING

- SURVEYOR'S NOTES:**
- BOUNDARY INFORMATION SHOWN HEREON IS BASED ON A PRIOR SURVEY PREPARED BY ENG DENMAN & ASSOCIATES FOR ALACHUA COUNTY PUBLIC WORKS DIVISION, UNDER PROJECT NUMBER 02-116, DATES FEBRUARY 12, 2002.
 - BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH (NAD88).
 - ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM, AS PROJECTED FROM ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT BENCHMARK 99-035-0-02, LOCATED ON THE TOP OF A CONCRETE GUARD RAIL ON THE SOUTHWEST SIDE OF THE BRIDGE AT THE CROSSING OF HOCOTOWN CREEK AND SW 20TH AVENUE. PUBLISHED ELEVATION = 69.819' (NGVD29), ELEVATION CONVERTED TO NAVD88 DATUM USING THE CORPSCON SOFTWARE, CONVERTED ELEVATION = 68.989' (NAVD88).
 - THIS SURVEY CONSISTS OF FOUR (4) SHEETS AND IS NOT COMPLETE WITH OUT ALL FOUR (4) SHEETS. SEE SHEET ONE (1) FOR OVERALL BOUNDARY, LEGEND AND COMPLETE SURVEYOR'S NOTES. SEE SHEETS TWO (2) THROUGH FOUR (4) FOR DETAILED TOPOGRAPHIC INFORMATION.



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CITY OF GAINESVILLE

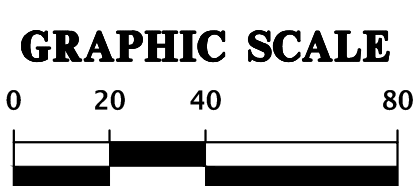
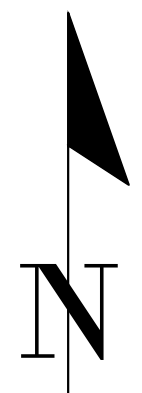
RESPONSE TO: AARON H. HICKMAN
PROJECT NUMBER: 21-0219

DATE: 06/02/2021	REVISION DATE: N/A
CREW CHIEF: JIM	CHECKED BY: AIH
FIELD BOOK & PAGE: 015-1	

This map prepared by:
AARON H. HICKMAN
SEE SHEET 1 OF 4

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NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

Title: Aaron_Hickman_21-0219.dwg Plot Date: Jun 14, 2021, 2:10pm Pathname: N:\2021\21-0219\Aaron_Hickman\21-0219_1000.dwg

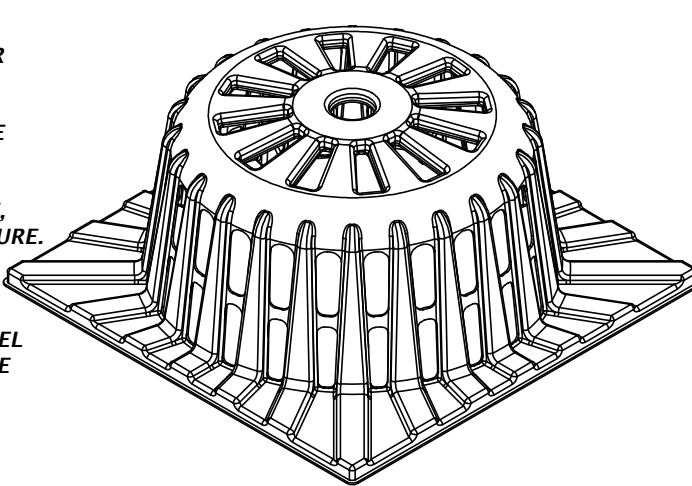


STORMWATER POLLUTION PREVENTION LEGEND

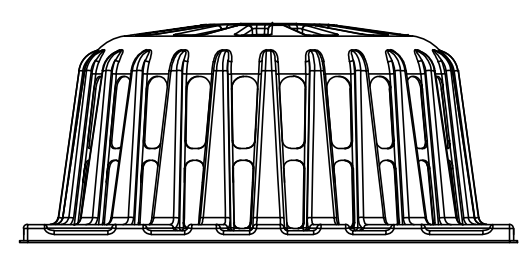
- TS** = TEMPORARY SEEDING
- PS** = PERMANENT SEEDING
- ML** = MULCHING
- SD** = SOD STABILIZATION
- SF** = SILT BARRIER
- TB** = TREE BARRIER
- TBH** = HERITAGE TREE BARRIER
- IP** = INLET PROTECTION
- OP** = OUTLET PROTECTION
- CO** = CONSTRUCTION ENTRANCE/EXIT

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

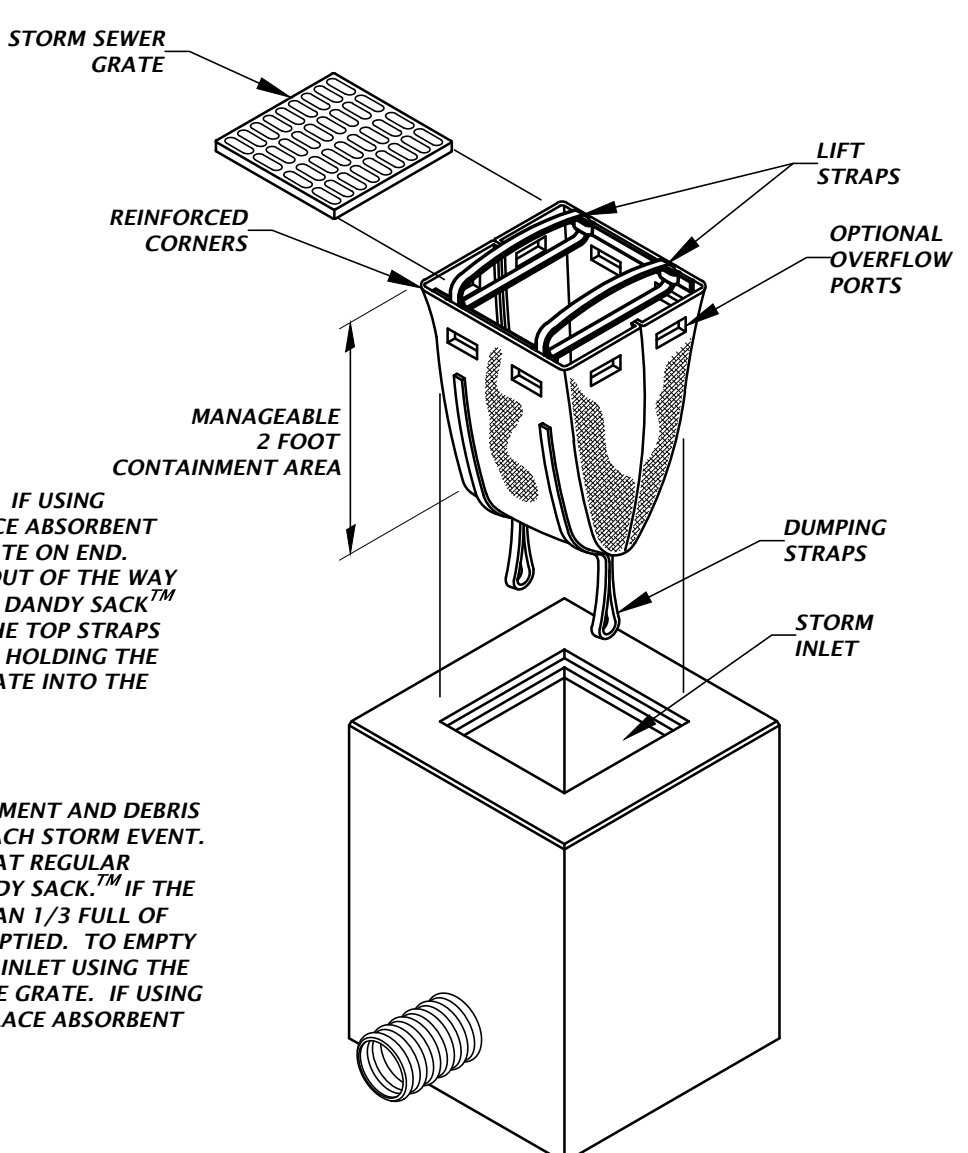
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



BASE OF FRAME SHAPED & SIZED TO FIT INLET TOP



SILT-SAVER® DETAIL



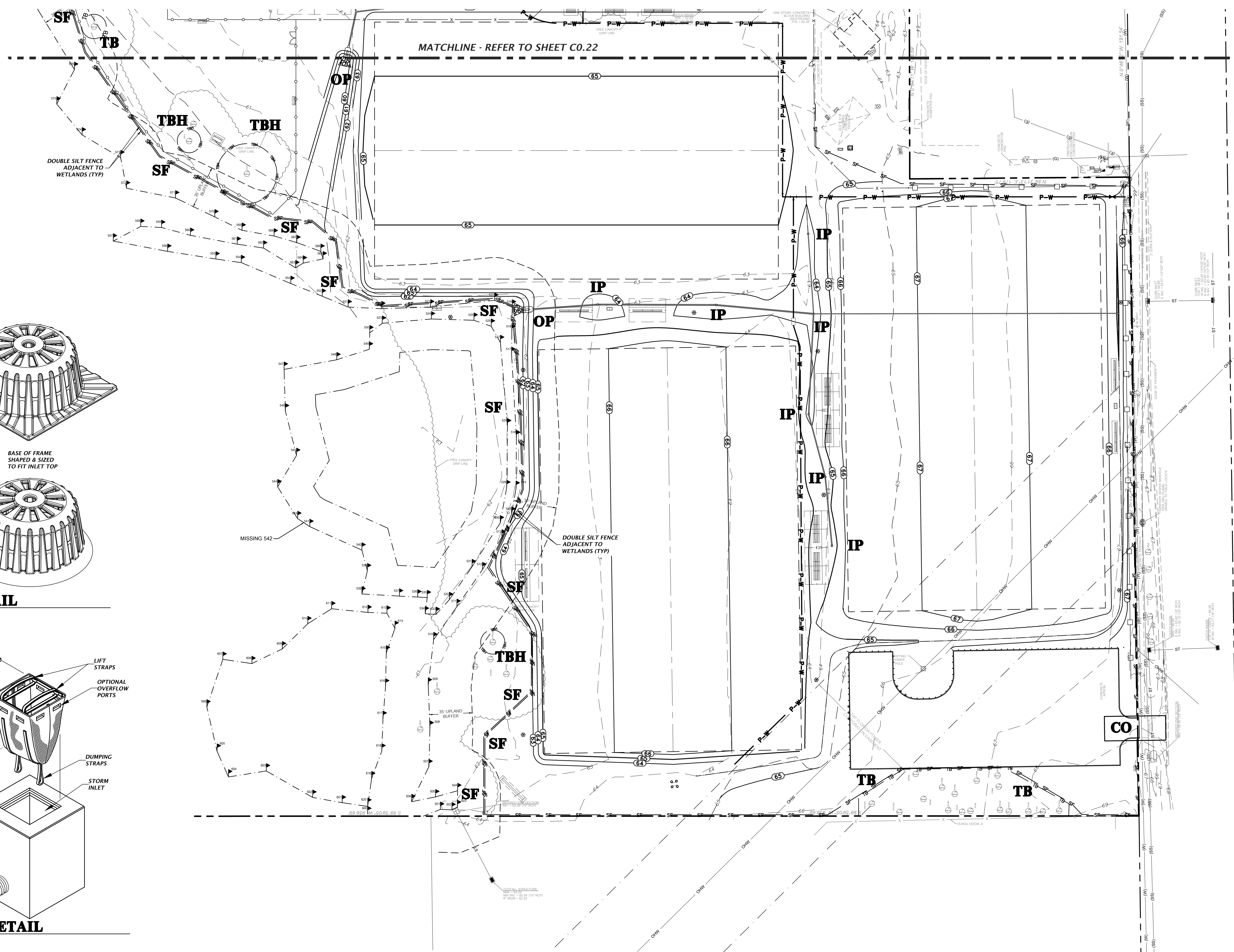
INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK™ SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK™. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY SACK™ DETAIL



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CONSTRUCTION REVISIONS

DATE: 12/06/2021
SUBMITTED TO: CITY OF GAINESVILLE, GRI, AND SRWMD
DATE: 3/11/2022
SUBMITTED TO: CITY OF GAINESVILLE, GRI, AND SRWMD
DATE: 6/29/2022
SUBMITTED TO: SRWMD
DATE: 10/06/2022
BD SET

CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN

DESIGNER: K. MERRITT
CHECKER: C. THORNTON
QUALITY CONTROL: T. HASTAY
PROJECT NUMBER: 21-0219

TRAVIS J. HASTAY

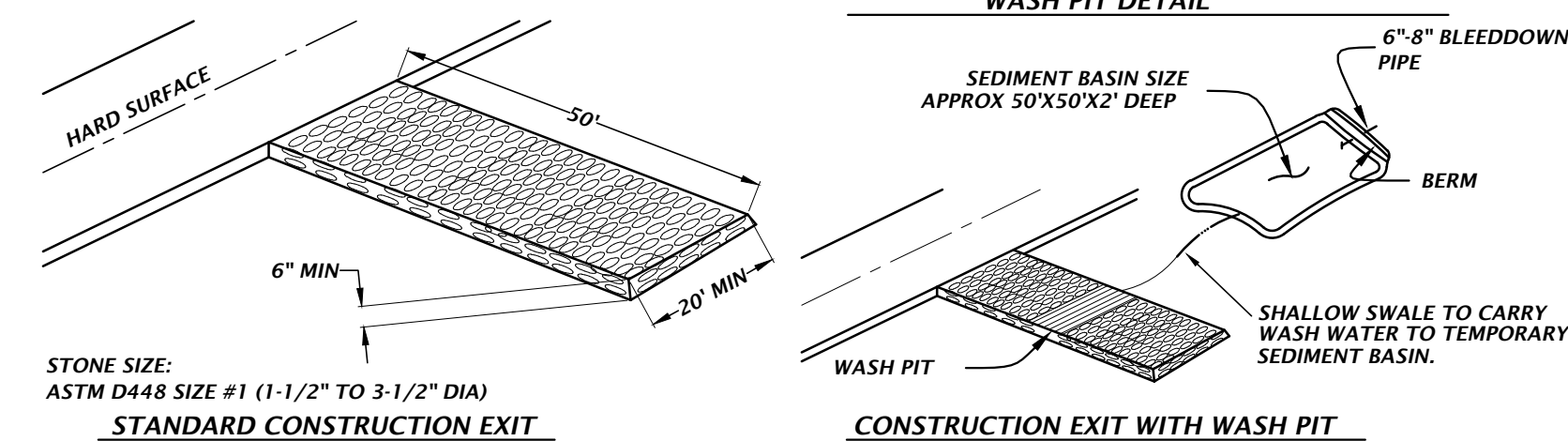
FL PE No. 84295
SHEET NO. C0.21

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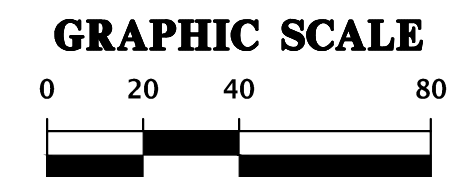
BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
3. THE DRAINAGE BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMEROCK BASE. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
5. THE DRAINAGE BASIN BOTTOM SHALL BE SCRAPED CLEAN OF ALL ACCUMULATED SEDIMENT UPON COMPLETION OF CONSTRUCTION AFTER THE STORMDRAIN SYSTEM IS COMPLETELY FLUSHED OUT. THIS ACTIVITY SHALL ONLY OCCUR IN A DRY STATE.
6. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
7. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.
8. WHERE POND TOP OF BANK IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

NOTE:
 1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
 2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
 3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.

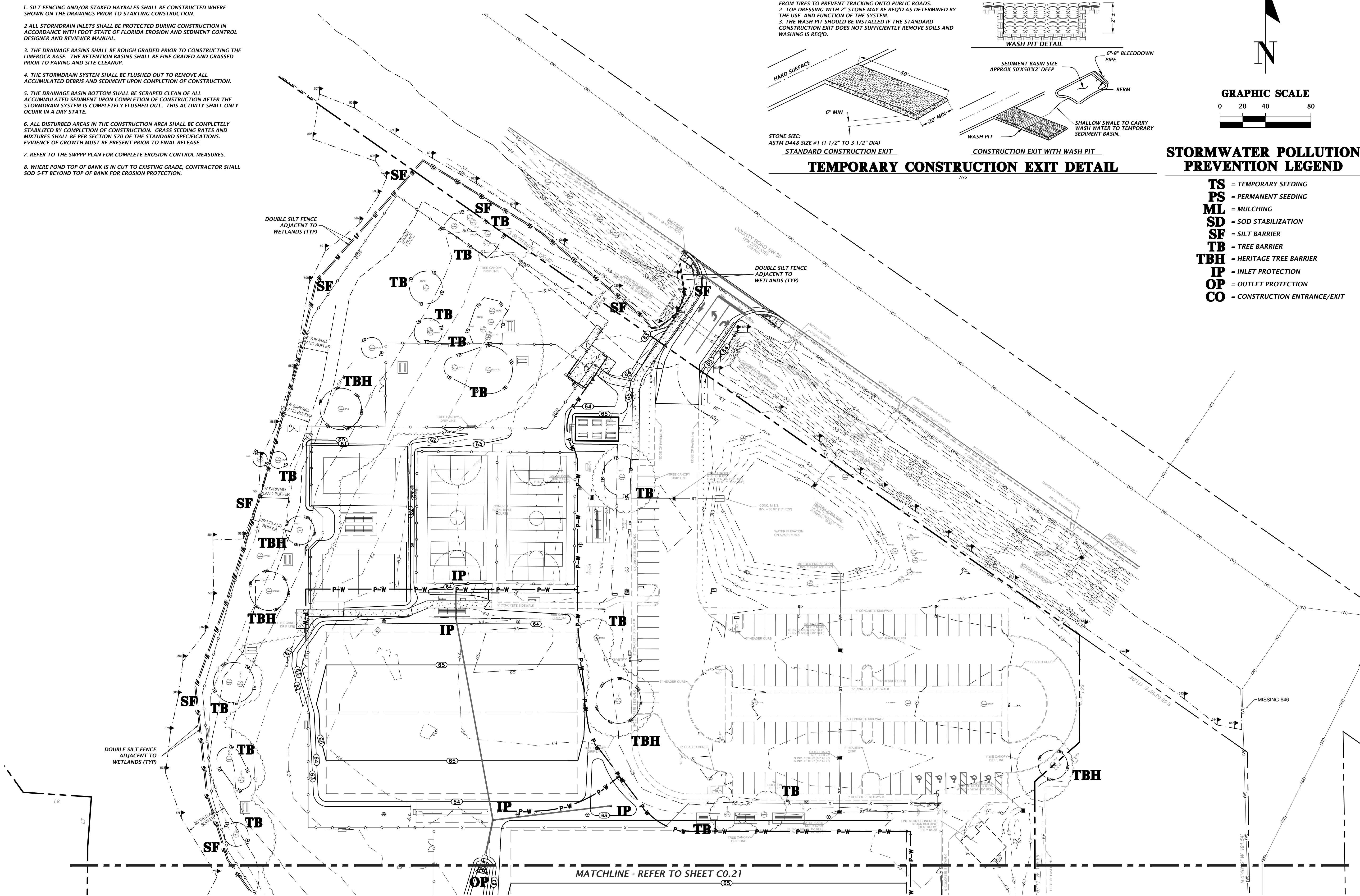


TEMPORARY CONSTRUCTION EXIT DETAIL



STORMWATER POLLUTION PREVENTION LEGEND

- TS** = TEMPORARY SEEDING
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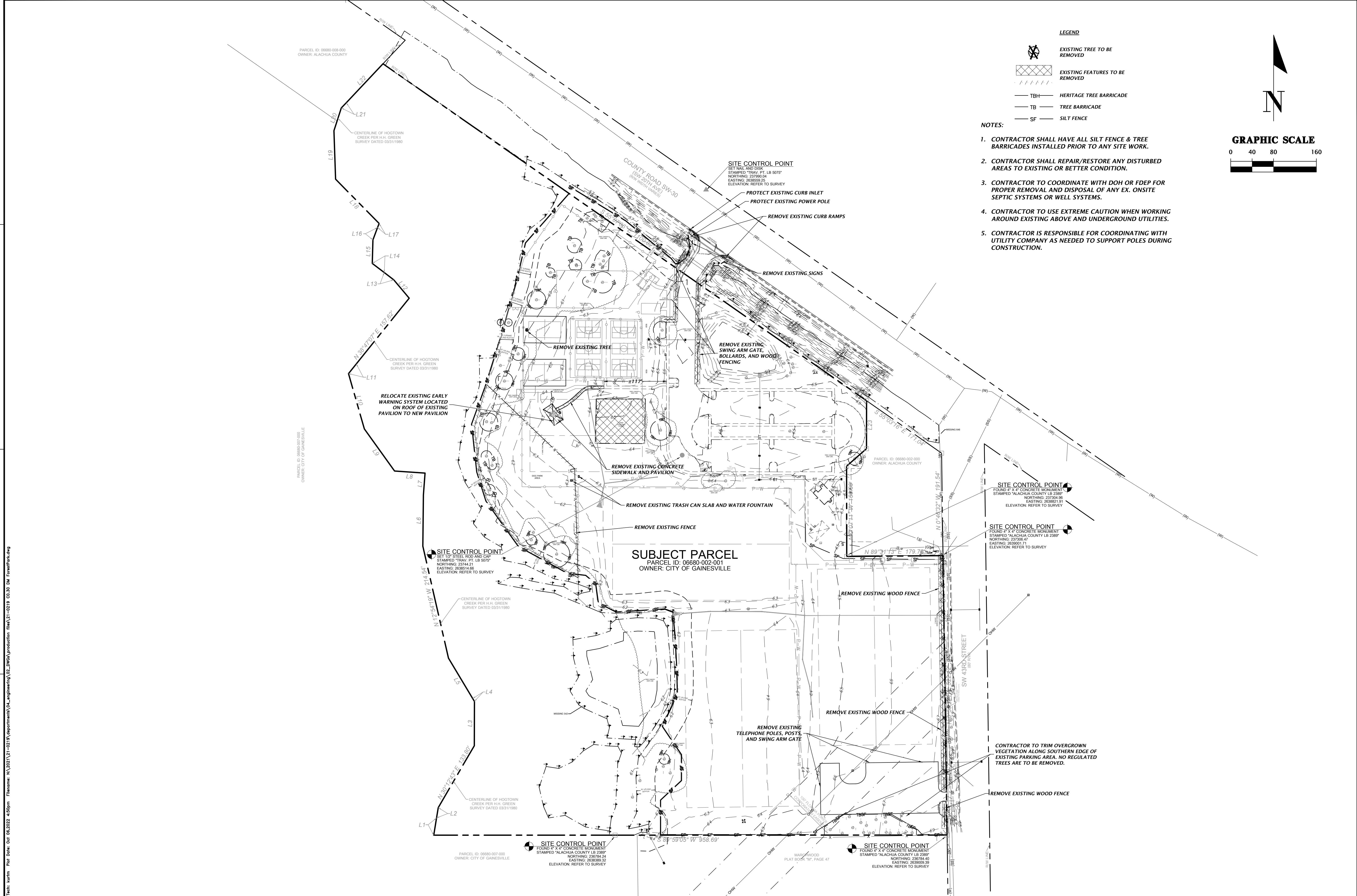
CONSTRUCTION LOG REVISIONS

DATE	DESCRIPTION
12/06/2021	FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
3/17/2022	RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
6/29/2022	RESUBMITTAL TO SRWMD
10/06/2022	BD SET

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

DESIGNER: K. MERRITT
 CHECKER: C. THORNTON
 QUALITY CONTROL: T. HASTAY
 PROJECT NUMBER: 21-0219
 TRAVIS J. HASTAY
 FL PE No. 84295
C0.22

Text: hufft For Date: 04/04/2022 4:50pm File: N:\2021\21-0219\Department\A\m\engineering\A\m\production\hufft\21-0219 C0.21 SWPPP ForestPark.dwg



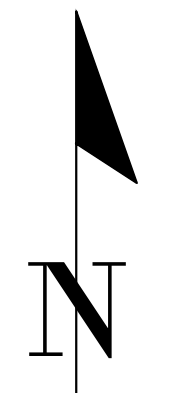
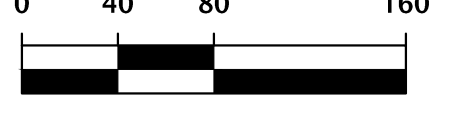
LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING FEATURES TO BE REMOVED
- HERITAGE TREE BARRICADE
- TREE BARRICADE
- SILT FENCE

NOTES:

1. CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.
2. CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.
3. CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EX. ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.
4. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.

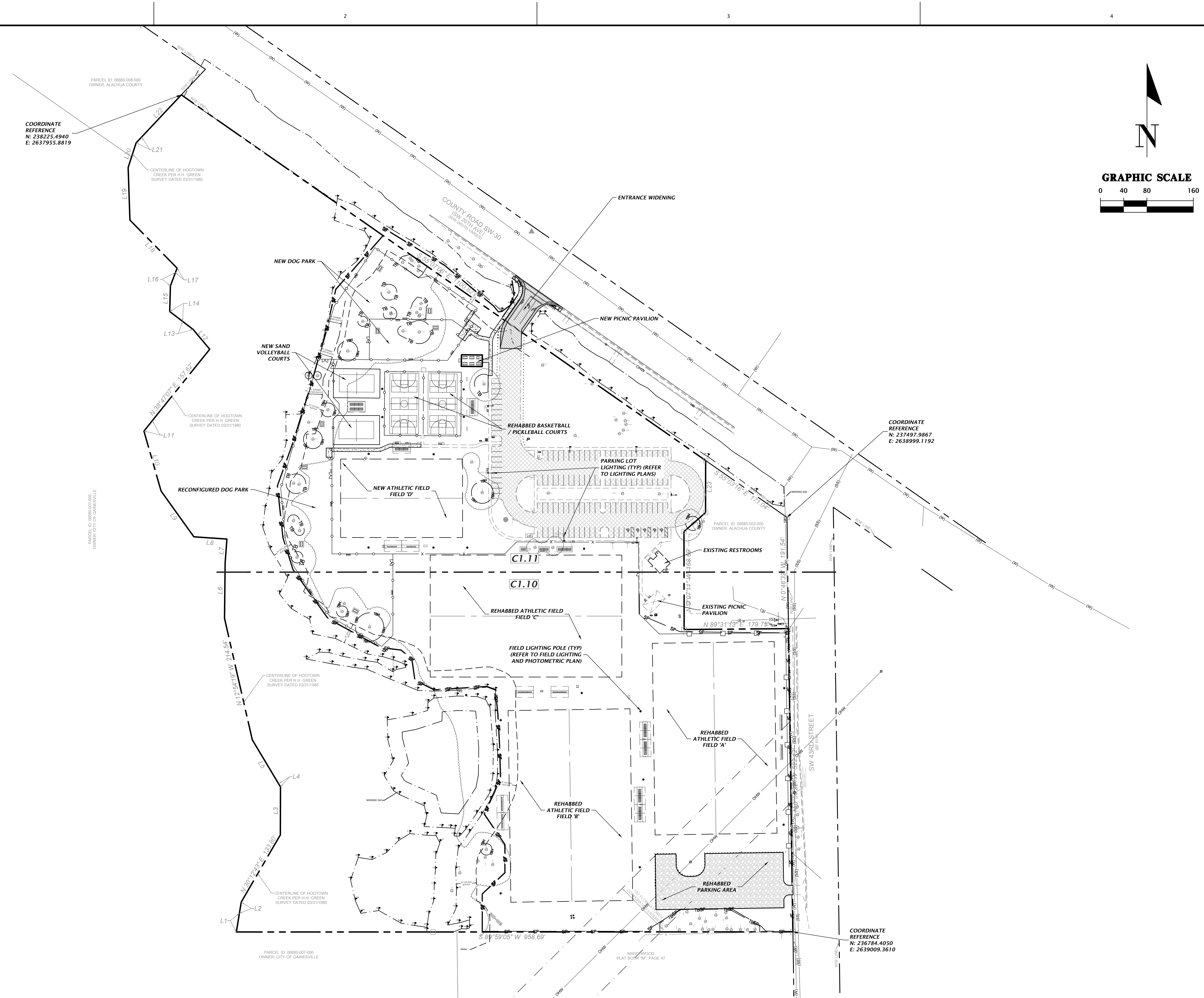
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 A
 B
 C
 D

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SCALE: 1"=80' VERIFY SCALE ON ORIGINAL DRAWING 0"=0' (AS SHOWN) 1"=100' (THIS SHEET) ADJUST SCALES ACCORDINGLY.		CONSTRUCTION AND PROGRESS
CITY OF GAINESVILLE FOREST PARK WSPPP DEMOLITION AND TREE PROTECTION PLAN		SHEET TITLE: 21-0219
CLIENT: K. MERRITT PROJECT: C. THORNTON QUALITY CONTROL: T. HASTAY PROJECT NUMBER: 21-0219		TRAVIS J. HASTAY
SUBMITTAL HISTORY: 12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD 3/17/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD 6/29/2022 - RESUBMITTAL TO SRWMD 10/06/2022 - BID SET		FL PE No. 84295 SHEET No. C0.30

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THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION REVISIONS

NO.	DATE	DESCRIPTION
1	12/06/2021	FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
2	3/11/2022	RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
3	6/29/2022	RESUBMITTAL TO SRWMD
4	10/06/2022	BD SET

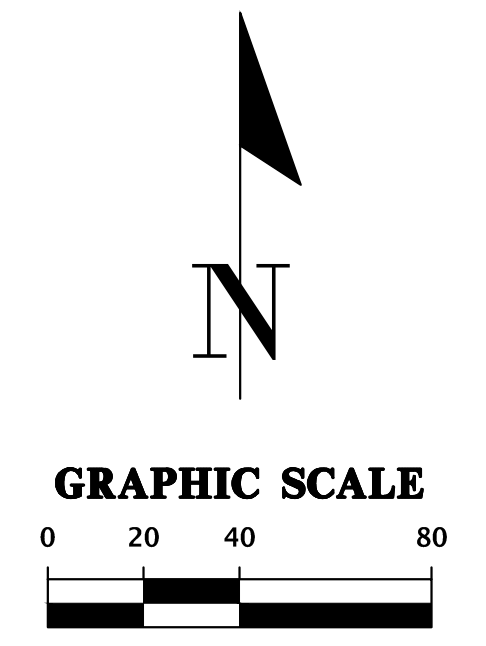
CITY OF GAINESVILLE
PROJECT: FOREST PARK WSPPP
SHEET TITLE: MASTER SITE PLAN

DESIGNER: K. MERRITT
CHECKER: C. THORNTON
QUALITY CONTROL: T. HASTAY
PROJECT NUMBER: 21-0219

TRAVIS J. HASTAY

FL PE No. 84295
SHEET NO. **C1.00**

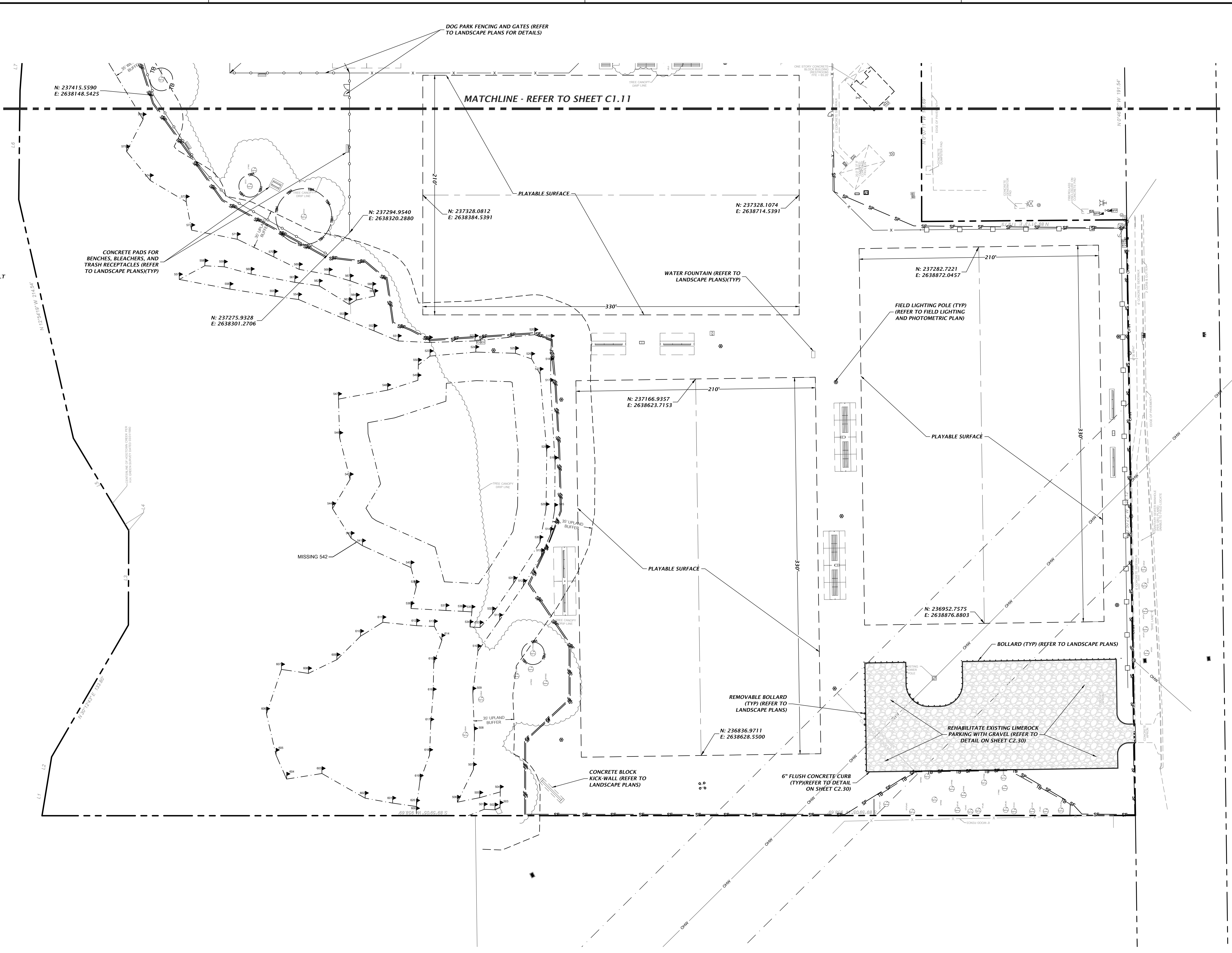
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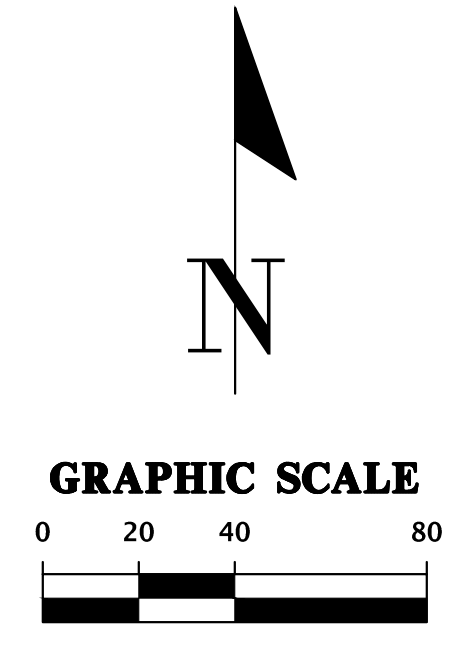
REFER TO SHEET C1.00 FOR COORDINATE REFERENCE LOCATIONS.

- CONCRETE SIDEWALK
- STANDARD DUTY ASPHALT
- MILL AND RESURFACE
- GRAVEL PARKING

REFER TO PAVEMENT DETAILS ON SHEET C2.30.

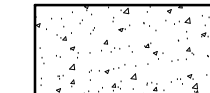


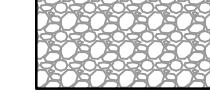



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SCALE	1"=40'	VERIFY SCALE ON ORIGINAL DRAWING 0" MEANS THE SCALE OF THIS SHEET, ADJUST SCALES ACCORDINGLY.	
CONSTRUCTION REVISIONS			
DATE	DESCRIPTION	BY	CHECKED
3/26/2021	FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD		
3/17/2022	RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD		
6/29/2022	RESUBMITTAL TO SRWD		
10/06/2022	BD SET		
CITY OF GAINESVILLE		PROJECT: FOREST PARK WSP	
K. MERRITT		QUALITY CONTROL: T. HASTAY	
C. THORNTON		PROJECT NUMBER: 21-0219	
T. HASTAY		SHEET TITLE: DETAILED HORIZONTAL CONTROL PLAN	
TRAVIS J. HASTAY		FL PE No. 84295	
SHEET NO.		C1.10	

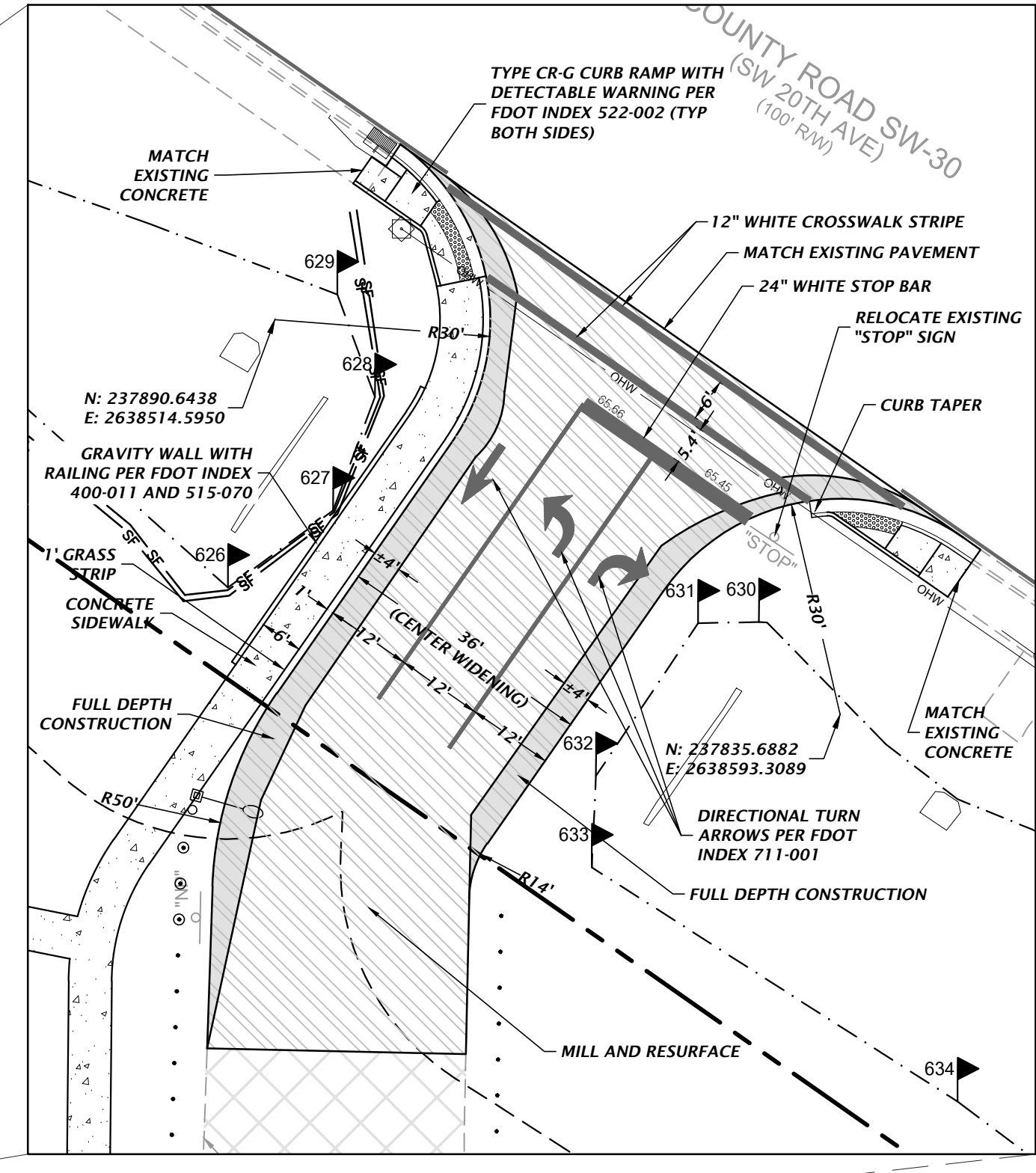


GRAPHIC SCALE
0 20 40 80

REFER TO SHEET C1.00 FOR COORDINATE REFERENCE LOCATIONS.

-  CONCRETE SIDEWALK
-  STANDARD DUTY ASPHALT
-  MILL AND RESURFACE
-  GRAVEL PARKING
-  SEALCOAT

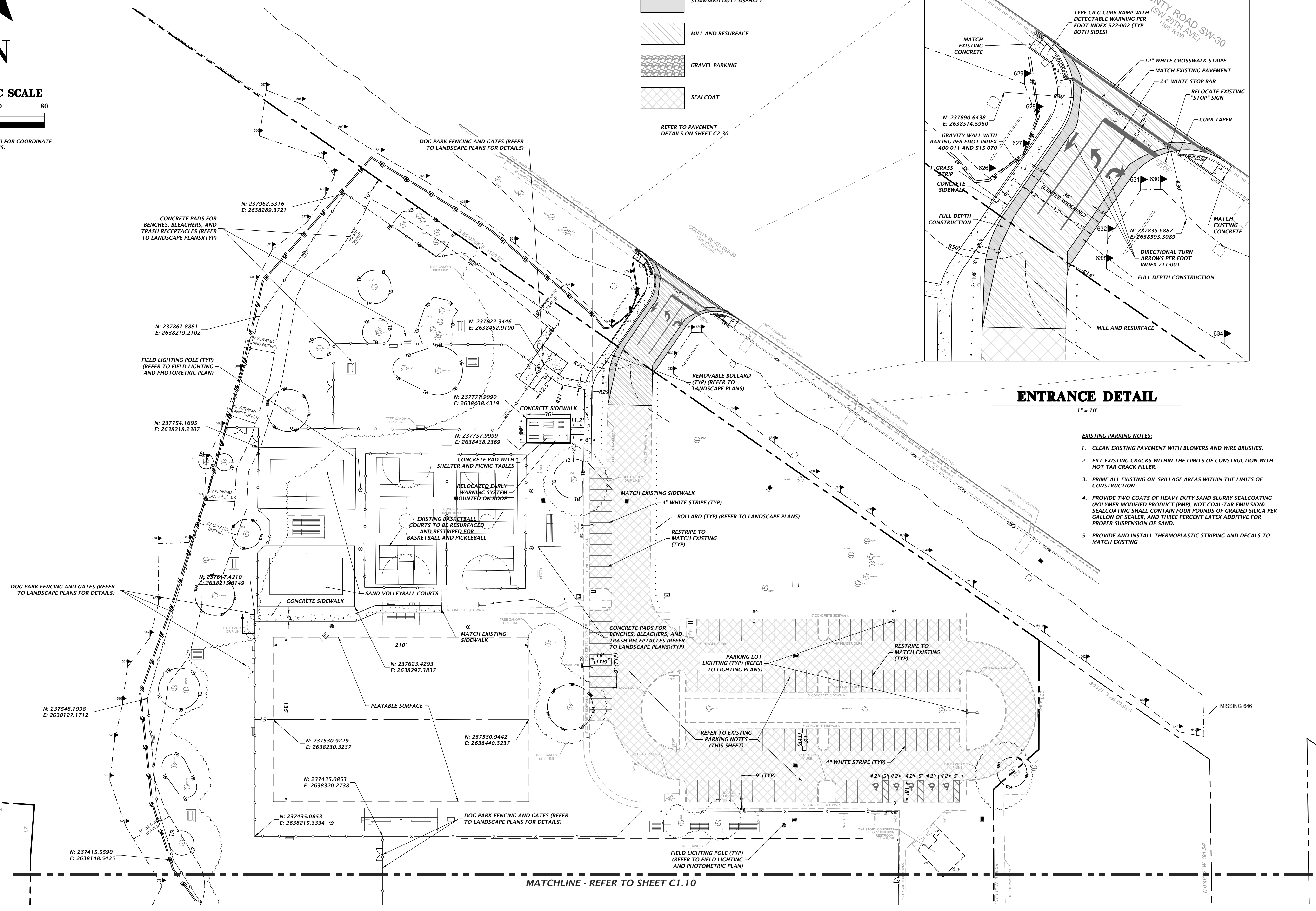
REFER TO PAVEMENT DETAILS ON SHEET C2.30.



ENTRANCE DETAIL
1" = 40'

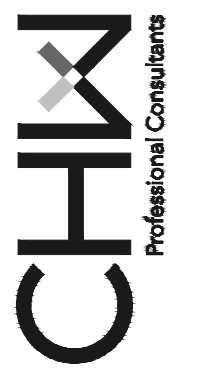
EXISTING PARKING NOTES:

1. CLEAN EXISTING PAVEMENT WITH BLOWERS AND WIRE BRUSHES.
2. FILL EXISTING CRACKS WITHIN THE LIMITS OF CONSTRUCTION WITH HOT TAR CRACK FILLER.
3. PRIME ALL EXISTING OIL SPILLAGE AREAS WITHIN THE LIMITS OF CONSTRUCTION.
4. PROVIDE TWO COATS OF HEAVY DUTY SAND SLURRY SEALCOATING (POLYMER MODIFIED PRODUCT (PMP), NOT COAL-TAR EMULSION). SEALCOATING SHALL CONTAIN FOUR POUNDS OF GRADED SILICA PER GALLON OF SEALER, AND THREE PERCENT LATEX ADDITIVE FOR PROPER SUSPENSION OF SAND.
5. PROVIDE AND INSTALL THERMOPLASTIC STRIPING AND DECALS TO MATCH EXISTING.

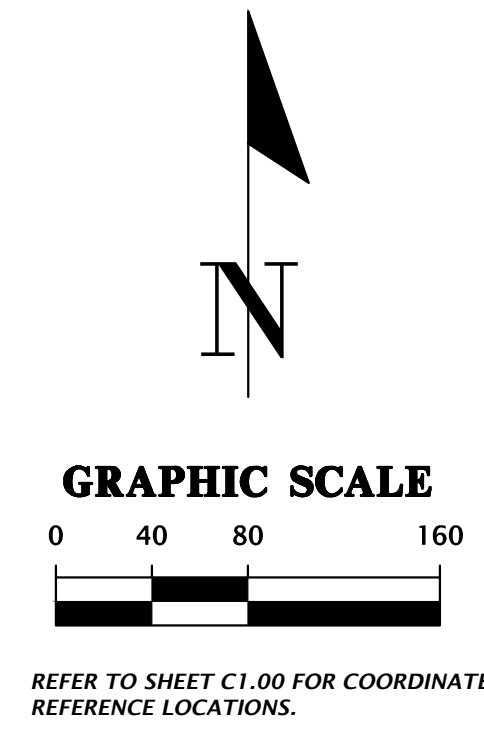
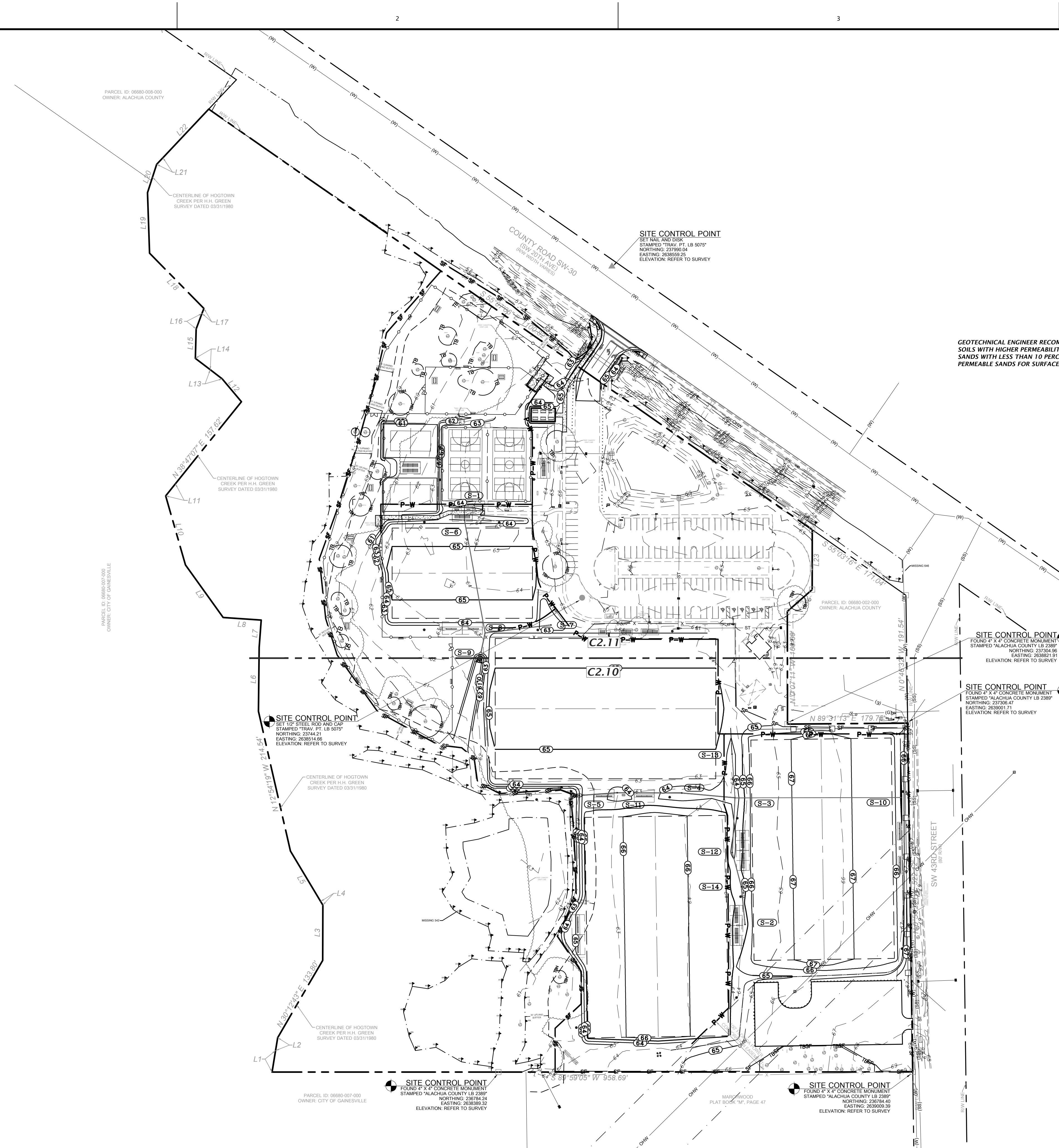


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 Plot Scale: 1" = 40'
 Plot Orientation: Landscape
 Plot Size: 11.00 x 17.00
 Plot Title: DETAILED HORIZONTAL CONTROL PLAN
 Plot Number: 21-0219
 Plot Project: FOREST PARK WSPP
 Plot Client: CITY OF GAINESVILLE
 Plot Designer: K. MERRITT
 Plot Checker: C. THORNTON
 Plot Engineer: T. HASTAY
 Plot Project Number: 21-0219

 CHW Professional Consultants	
11801 Research Drive Alachua, Florida 32615 (352) 351-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075	SCALE: 1" = 40' VERIFY SCALE ON ORIGINAL DRAWING 0 = 1" = 40' (AS SHOWN) THIS SHEET, ADJUST SCALES ACCORDINGLY.
CONSTRUCTION REVISIONS NO. DATE DESCRIPTION 1 3/17/2022 FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD 2 3/17/2022 RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD 3 6/29/2022 RESUBMITTAL TO SRWMD 4 10/06/2022 BID SET	
CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSPP SHEET TITLE: DETAILED HORIZONTAL CONTROL PLAN SHEET NUMBER: 21-0219	DESIGNER: K. MERRITT CHECKER: C. THORNTON QUALITY CONTROL: T. HASTAY PROJECT NUMBER: 21-0219 TRAVIS J. HASTAY
FL PE No. 84295 C1.11	

Title: null; For Date: 04/2022 4:51pm File: N:\2021\1-0218\Department\VA_engineering\VA_engineering\production\lha\1-0219_C2.00_MDP_ForestPark.dwg



GEOTECHNICAL ENGINEER RECOMMENDS REPLACING THE EXISTING NEAR-SURFACE SOIL WITH SANDY SOILS WITH HIGHER PERMEABILITY TO HELP DRAIN THE WATER FROM THE PLAYING FIELDS. CLEAN SANDS WITH LESS THAN 10 PERCENT SOIL FINES PASSING THE NO. 200 SIEVE SHOULD BE USED AS PERMEABLE SANDS FOR SURFACE SOILS TO HELP PROMOTE RUNOFF OF WATER FROM THE SITE.

STORMWATER STRUCTURE TABLE					
STRUCTURE	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	18" AREA DRAIN	63.50	60.76 S	12"	N: 237631.78 E: 2638338.51
S-2	18" AREA DRAIN	64.32	62.57 N	12"	N: 237005.19 E: 2638758.37
S-3	18" AREA DRAIN	63.30	62.01 S 62.01 W 62.01 N	12" 15" 8"	N: 237194.69 E: 2638743.34
S-4	18" AREA DRAIN	63.66	61.77 E 61.77 W	15" 15"	N: 237201.94 E: 2638663.80
S-5	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	61.30 E	15"	N: 237198.04 E: 2638507.66
S-6	18" AREA DRAIN	64.80	60.70 N 60.70 S	12" 12"	N: 237610.09 E: 2638338.60
S-7	18" AREA DRAIN	62.70	60.68 W	12"	N: 237453.38 E: 2638467.93
S-8	STORM CLEANOUT	63.10	60.18 E 60.18 S 60.18 N	12" 15" 12"	N: 237441.46 E: 2638369.44
S-9	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	60.00 N	15"	N: 237406.01 E: 2638361.87
S-10	18" AREA DRAIN	64.80	63.51 W	8"	N: 237195.10 E: 2638992.19
S-11	18" AREA DRAIN	63.75	61.48 E 61.48 W	15" 15"	N: 237202.27 E: 2638567.07
S-12	18" AREA DRAIN	63.58	62.25 S 62.25 N	12" 12"	N: 237112.61 E: 2638739.35
S-13	18" AREA DRAIN	63.50	62.41 S	8"	N: 237260.04 E: 2638738.94
S-14	18" AREA DRAIN	64.20	62.41 S 62.41 N	12" 12"	N: 237061.52 E: 2638752.90

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SCALE: 1"=80'

VERIFY SCALE ON ORIGINAL DRAWING
0 INCHES = 80 FEET
THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION AND REVISIONS

DATE: 3/26/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD

DATE: 3/17/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD

DATE: 6/29/2022 - RESUBMITTAL TO SRWMD

DATE: 10/06/2022 - BID SET

CITY OF GAINESVILLE

FOREST PARK WSP

MASTER GRADING, DRAINAGE, AND UTILITY PLAN

DESIGNER: K. MERRITT

PROJECT MANAGER: C. THORNTON

QUALITY CONTROL: T. HASTAY

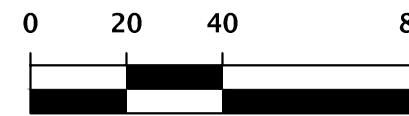
PROJECT NUMBER: 21-0219

CLIENT: TRAVIS J. HASTAY

FL PE No. 84295

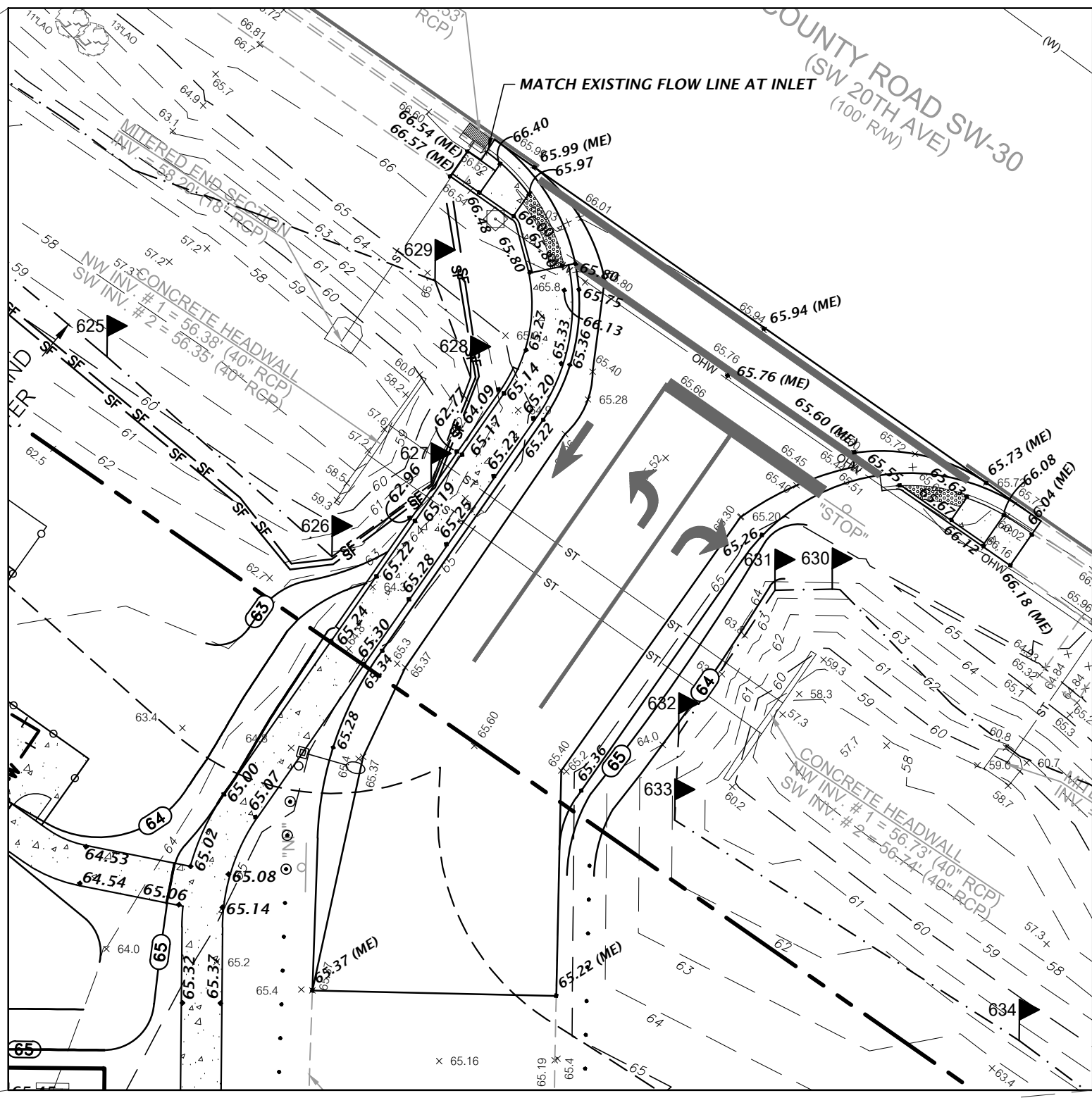
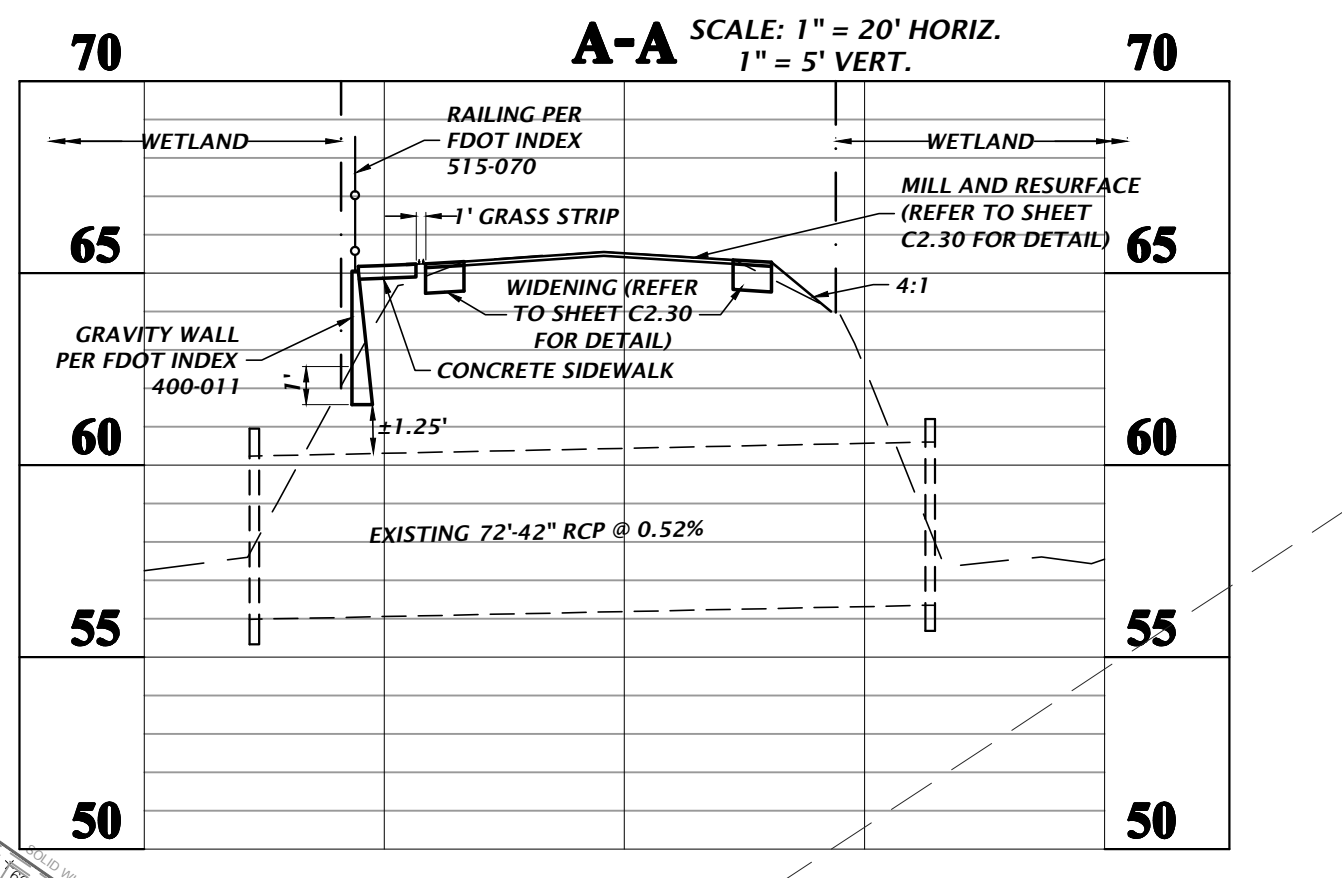
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GRAPHIC SCALE

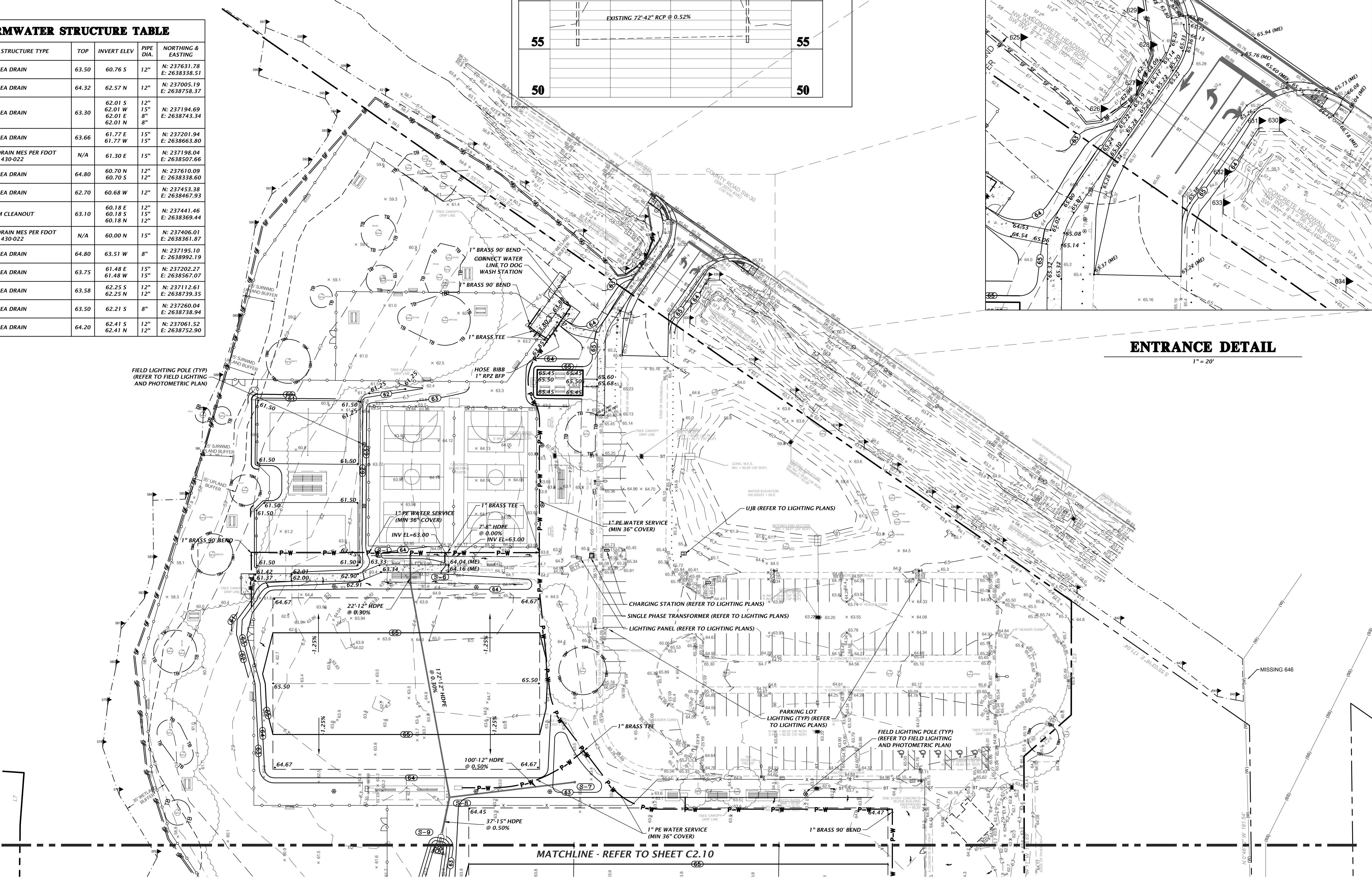


REFER TO SHEET C1.00 FOR COORDINATE REFERENCE LOCATIONS.

STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	18" AREA DRAIN	63.50	60.76 S	12"	N: 237631.78 E: 2638338.51
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S-13	18" AREA DRAIN	63.50	62.21 S	8"	N: 237260.04 E: 2638738.94
S-14	18" AREA DRAIN	64.20	62.41 S 62.41 N	12" 12"	N: 237061.52 E: 2638752.90



ENTRANCE DETAIL
1" = 20'



MATCHLINE - REFER TO SHEET C2.10

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SCALE: 1" = 40'
VERIFY ALL ON ORIGINAL DRAWING
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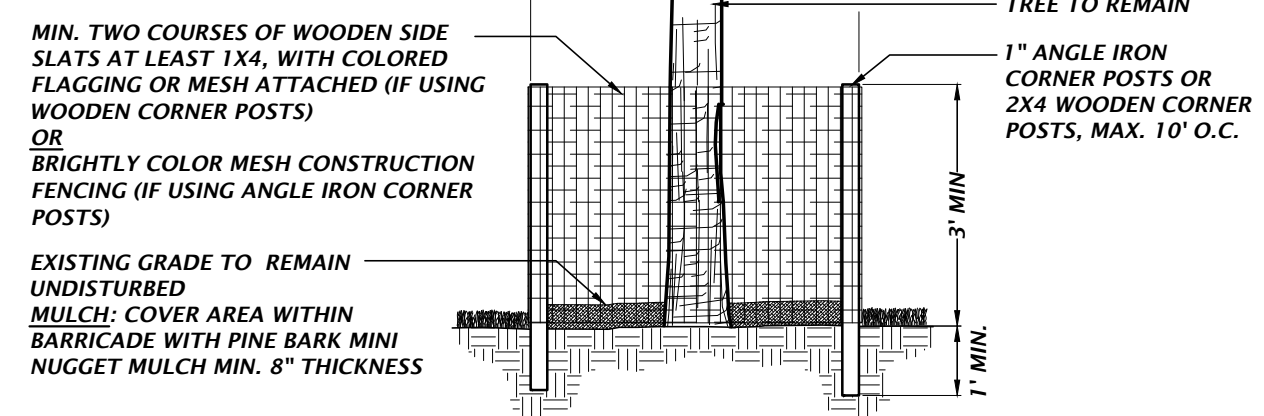
CONSTRUCTION REVISIONS

CITY OF GAINESVILLE
FOREST PARK WSP
PROJECT: 21-0219
SHEET TITLE: DETAILED GRADING, DRAINAGE, AND UTILITY PLAN
PROJECT NUMBER: 21-0219

DESIGNED BY: K. MERRITT
CHECKED BY: C. THORNTON
QUALITY CONTROL: T. HASTAY
TRAVIS J. HASTAY

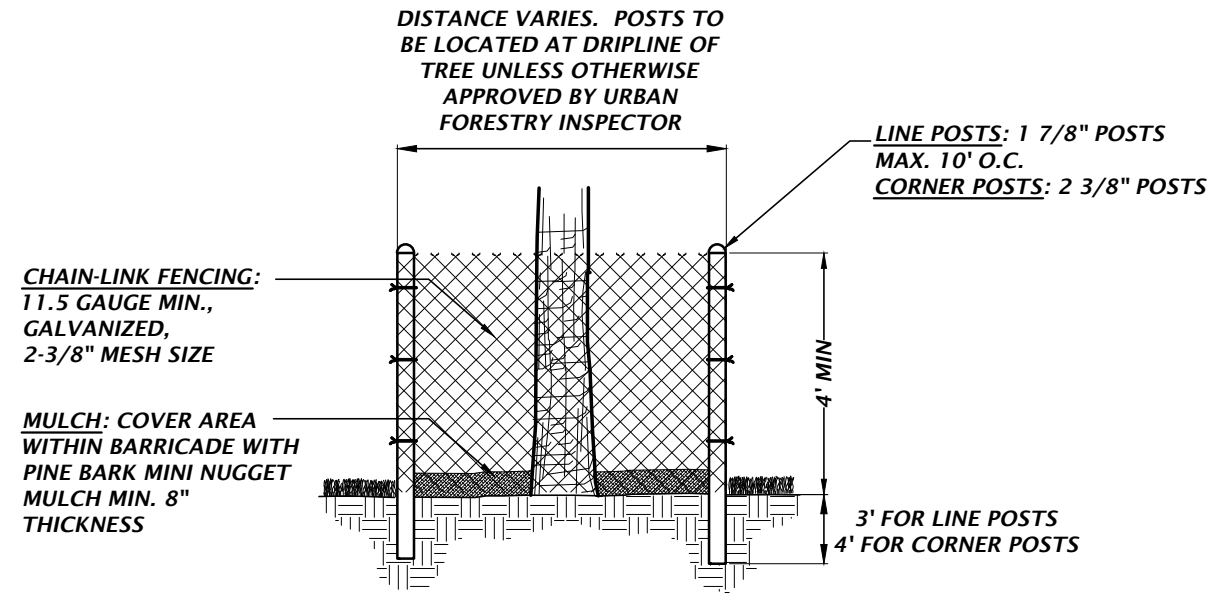
FL PE No. 84295
SHEET No. **C2.11**

NOTE:
SEE DETAIL BELOW FOR
TREE PROTECTION
REQUIREMENTS FOR HIGH
QUALITY HERITAGE TREES
TO REMAIN.



STANDARD TREE PROTECTION DETAIL REGULATED, NON HIGH-QUALITY HERITAGE

NTS

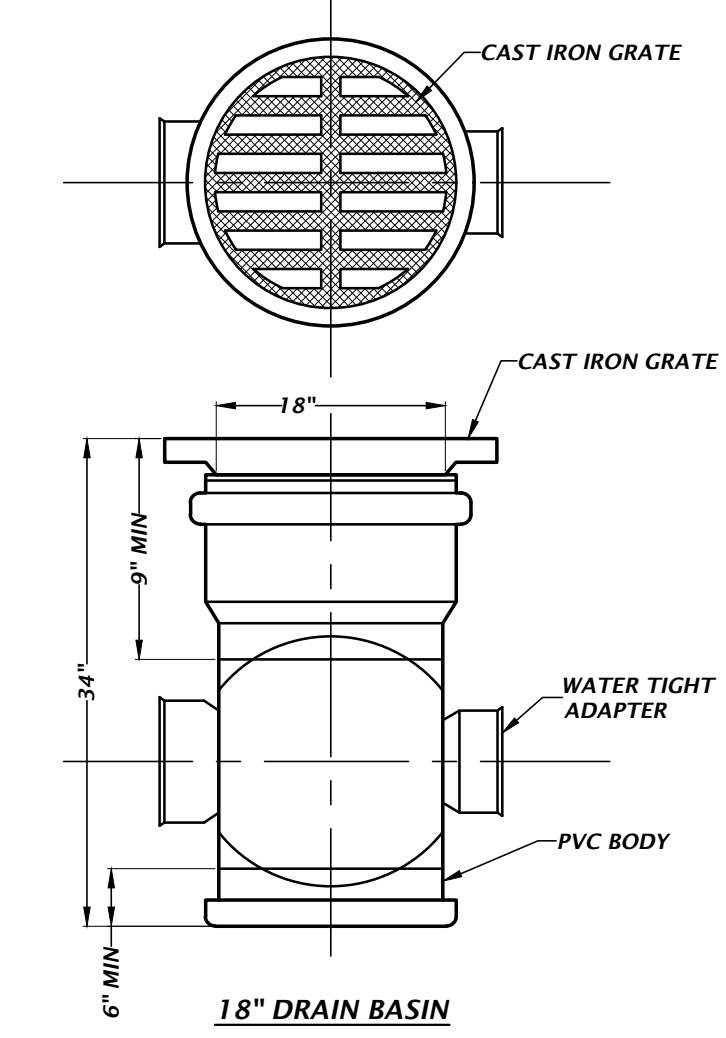


HIGH-QUALITY HERITAGE TREE PROTECTION DETAIL

NTS

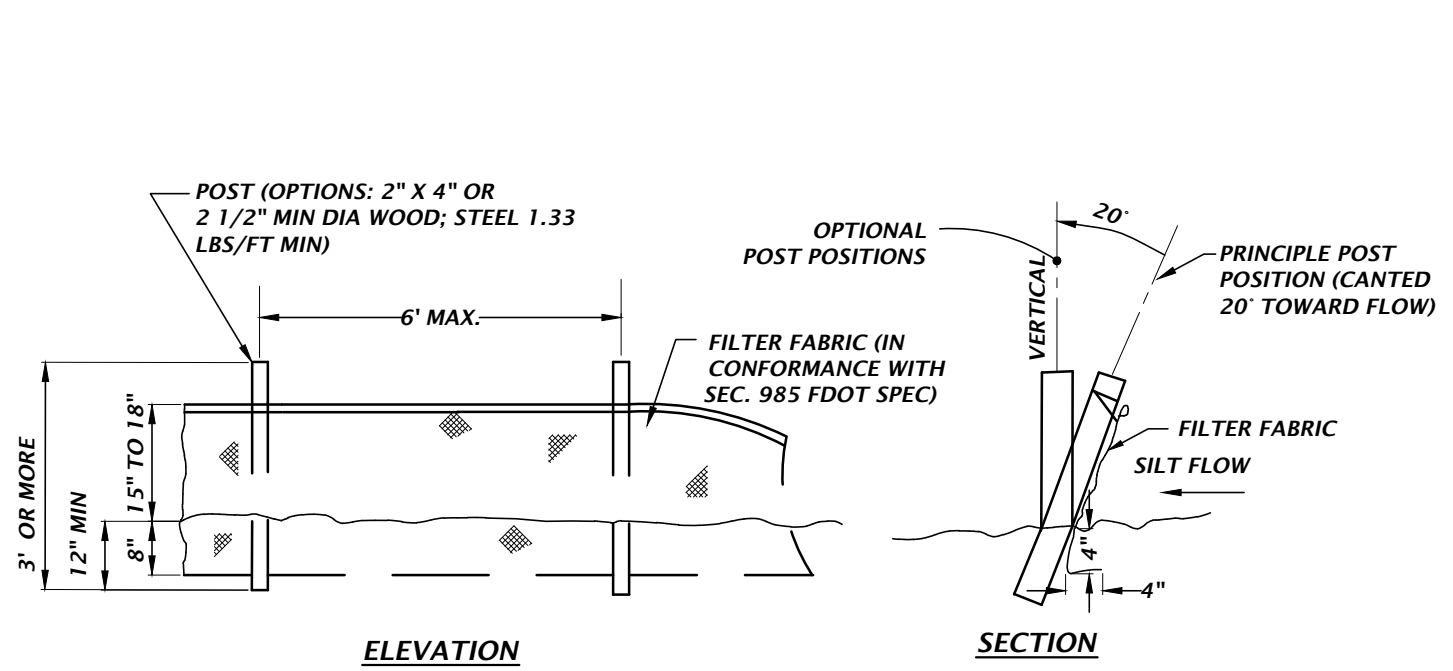
TREE PROTECTION NOTES

- ALL REGULATED TREES IN AREAS OF DEMOLITION OR CONSTRUCTION THAT HAVE NOT BEEN PERMITTED NOR DESIGNATED FOR REMOVAL BY EITHER THE PERMIT OR APPROVED DEVELOPMENT ORDER SHALL BE PROTECTED BY BARRIER ZONES ERRECTED AND INSPECTED PRIOR TO CONSTRUCTION OF ANY STRUCTURES, ROAD, UTILITY SERVICE OR OTHER IMPROVEMENTS. BARRICADES SHALL COMPLY WITH THE FOLLOWING PROTECTION.
- PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.
- NO TRENCHING ALLOWED WITHIN THE PROTECTIVE BARRIER ZONE. HAND DIG TO INSTALL UTILITY IF APPROVED BY CITY MANAGER OR DESIGNEE. WHERE ROOTS GREATER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RE-COVERED WITH SOIL WITHIN ONE HOUR OF DAMAGE OR EXPOSURE.
- PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN. IF CONSTRUCTION NEEDS DICTATE A TEMPORARY REMOVAL (FOR LESS THAN 24 HOURS), THE CITY MANAGER OR DESIGNEE, MAY APPROVE OR DENY THE TEMPORARY REMOVAL OF PROTECTIVE BARRIERS.
- LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY MANAGER OR DESIGNEE.
- NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS, EXCEPT SHORT-DURATION PLACEMENTS OF CLEAN FILL SOIL THAT WILL NOT HARM THE TREE. SUCH SHORT DURATION PLACEMENTS SHALL NOT EXCEED SEVEN CALENDAR DAYS. THE CITY MANAGER OR DESIGNEE SHALL BE NOTIFIED OF THE DATES THE SHORT DURATION PLACEMENT WILL BEGIN AND END. THE ORIGINAL SOIL GRADE THAT EXISTED WITHIN THE PROTECTED AREAS PRIOR TO THE PLACEMENT OF SUCH FILL SHALL BE RESTORED.
- THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300 PART V: MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND SITE CONSTRUCTION OR OTHER NATIONALLY RECOGNIZED ARBORICULTURAL STANDARDS APPROVED BY THE CITY MANAGER OR DESIGNEE SHALL BE USED AS GUIDELINES FOR TREE PROTECTION, PLANTING, PRUNING AND CARE DURING DEVELOPMENT AND CONSTRUCTION.
- POSTS TO BE LOCATED AT DRIPLINE OF TREE FOR REGULATES PINES/PALMS OR A MINIMUM OF 2/3 THE AREA OF THE DRIPLINE FOR ALL OTHER REGULATED SPECIES OR AT THE TREE ROOT PLATE, WHICHEVER IS GREATEST (UNLESS OTHERWISE APPROVED BY THE URBAN FORESTRY INSPECTOR).
- CALL THE CITY OF GAINESVILLE URBAN FORESTRY INSPECTOR 352-393-8188 TO SCHEDULE A BARRICADE INSPECTION PRIOR TO BEGINNING ANY CLEARING AND GRUBBING WORK.



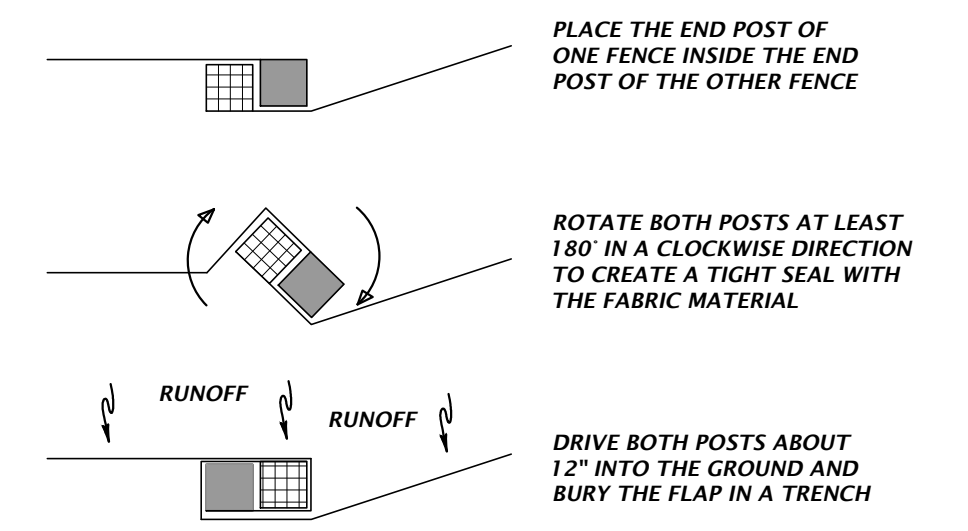
AREA DRAIN BASIN DETAIL

NTS



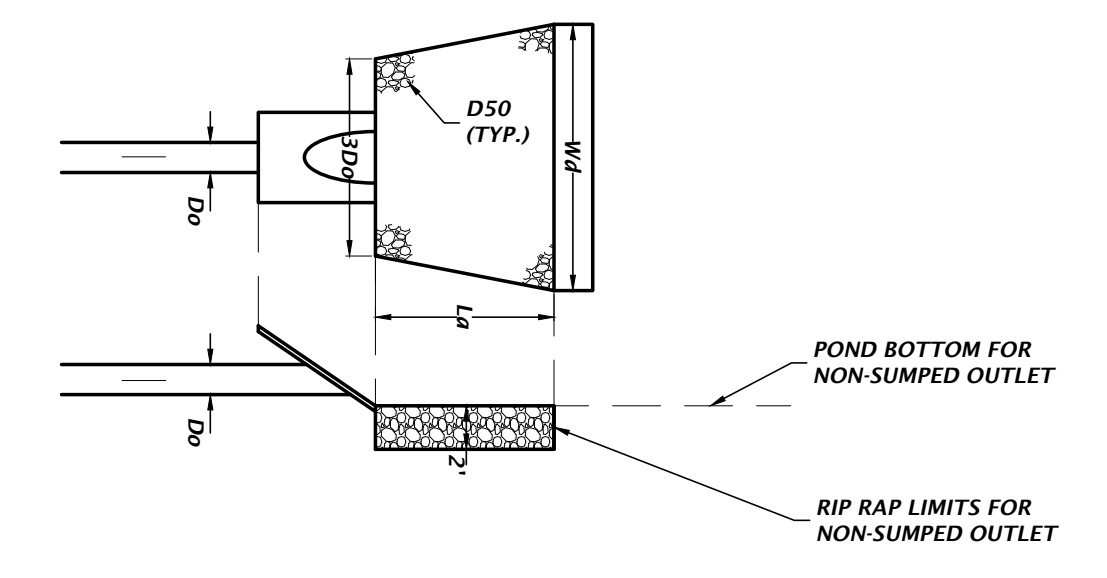
TYPE III SILT FENCE DETAIL

NTS



TYPE III SILT FENCE WRAPPING DETAIL

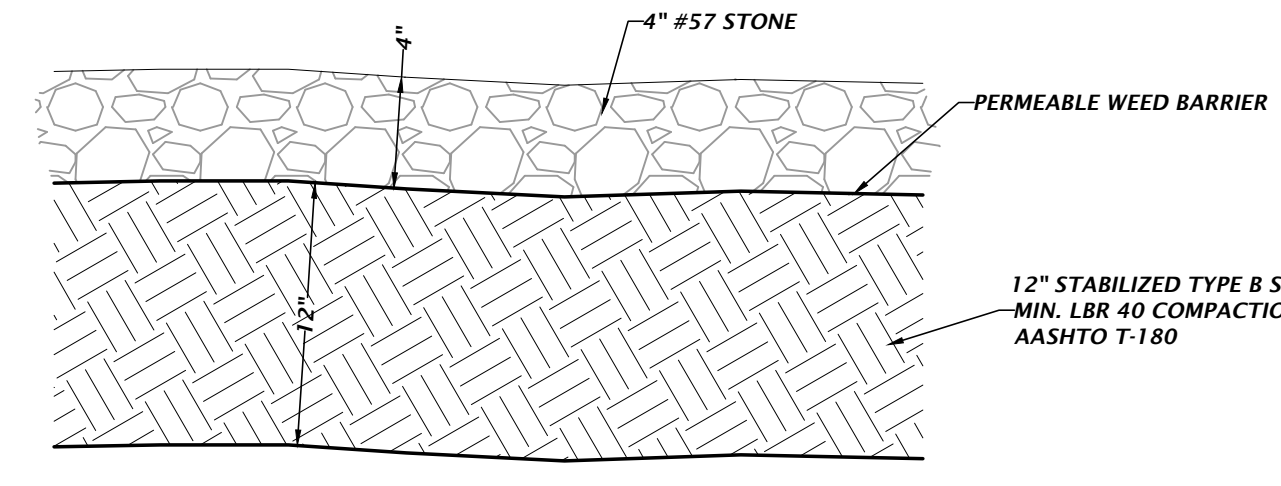
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RIP-RAP APRON DETAIL

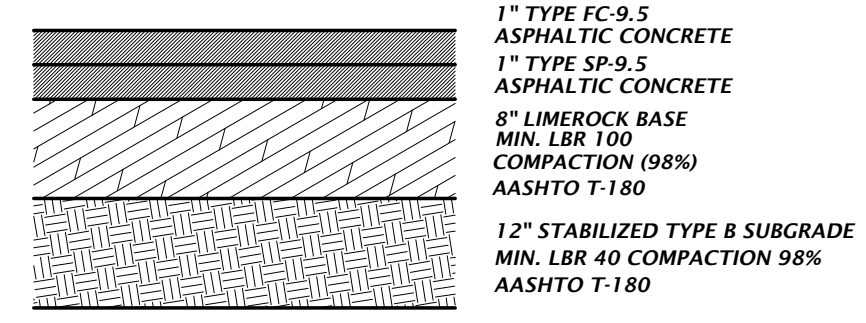
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STRUCTURE ID	PIPE DIAMETER Do (ft)	RIP RAP SPREAD AT PIPE OUTLET 3Do (ft)	RIP RAP SPREAD AT END OF APRON Wd (ft)	LENGTH OF APRON La (ft)	MEDIAN RIP RAP SIZE D50 (ft)
S-5	1.25	3.75	10.75	7.0	0.25
S-9	1.25	3.75	10.75	7.0	0.25



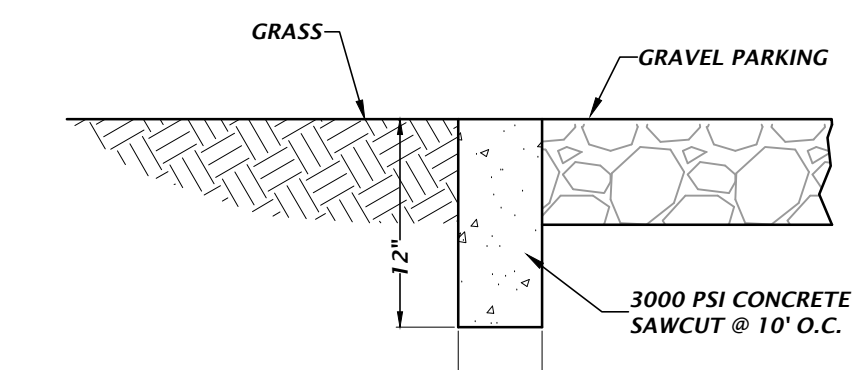
GRAVEL DETAIL

NTS



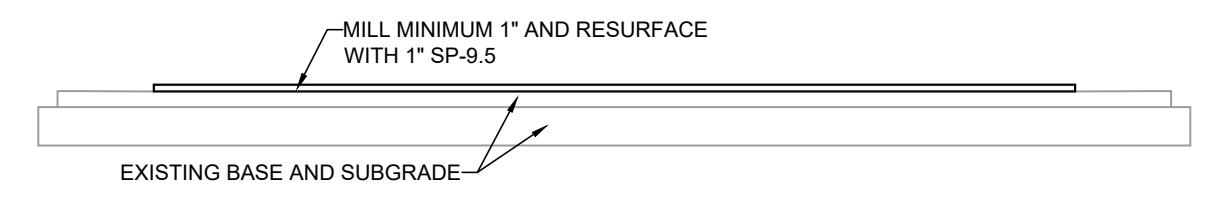
TYPICAL ASPHALT PAVEMENT DETAIL

NTS



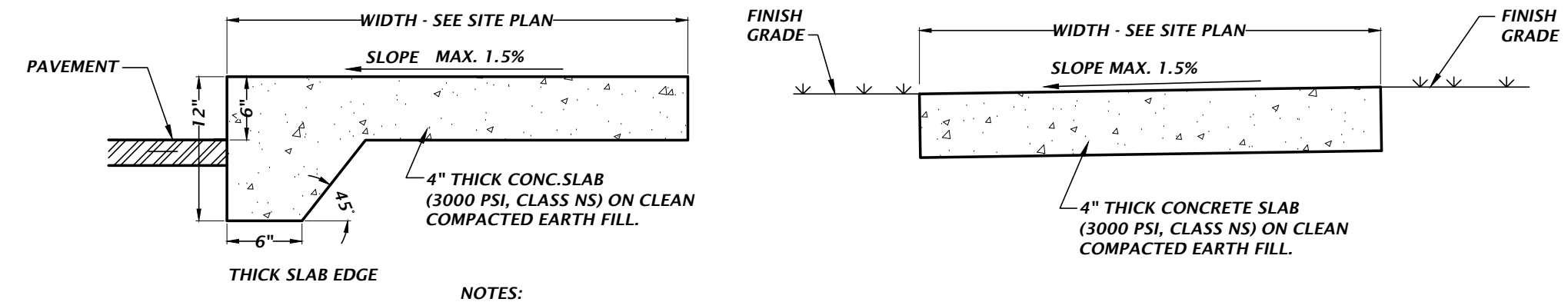
FLUSH CURB DETAIL

NTS



MILLING AND RESURFACING DETAIL

NTS



ADJACENT TO PAVEMENT

NTS

NOT ADJACENT TO PAVEMENT

NTS

CONCRETE SIDEWALK DETAILS

- NOTES:
- SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
 - EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

File name: N:\2021\31-0218\department\VA_engineering\VA_engineering\VA_0218\production\file\31-0218_C2.30_DT_ForestPark.dwg
 Plot Date: 04/26/2022 4:52pm
 Plotter: HPGL

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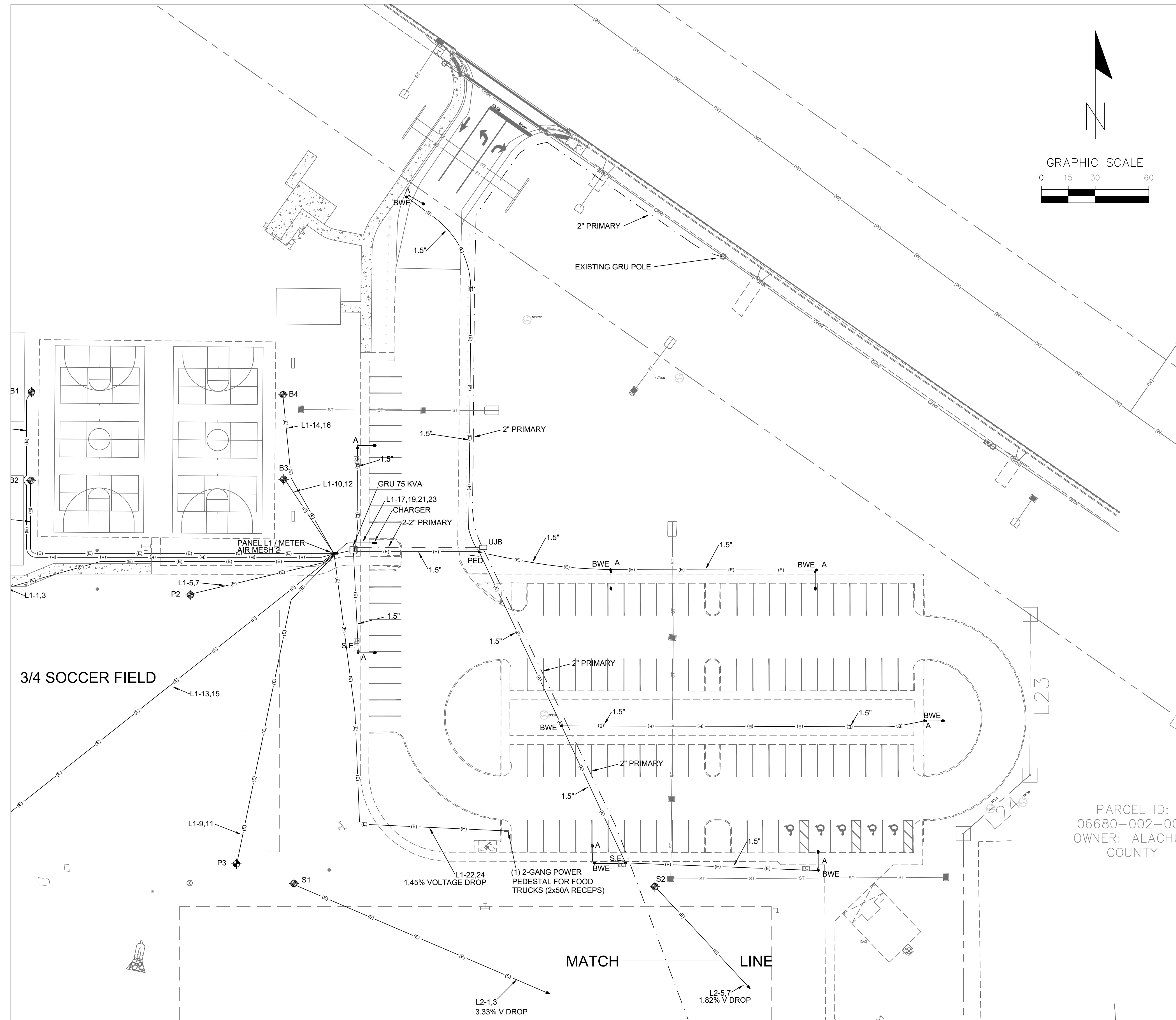
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CONSTRUCTION AND REVISIONS
 12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
 3/17/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWMD
 6/29/2022 - RESUBMITTAL TO SRWMD
 10/06/2022 - BID SET

CLIENT: CITY OF GAINESVILLE
 PROJECT: FOREST PARK WSP
 SHEET TITLE: CONSTRUCTION DETAILS
 SHEET NUMBER: 21-0219

DESIGNER: K. MERRITT
 CHECKER: C. THORNTON
 QUALITY CONTROL: T. HASTAY
 PROJECT NUMBER: TRAVIS J. HASTAY

FL PE No. 84295
 SHEET No. **C2.30**



Statistics							Code or Standard
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
Paved Parking	+	1.2 fc	2.9 fc	0.5 fc	5.8:1	2.4:1	IES RP-20-14 Lighting of Parking Facilities: Parking Area R6 Asphalt - 5 fc minimum <4:1 Avg/Min, <15:1 Max/Min
P/L @ Fire Station	+	0.2 fc	0.9 fc	0.0 fc	N/A	N/A	< 1FTC, 30-6, 12D, 2.b.i
P/L @ SW 20 Ave	+	0.1 fc	2.6 fc	0.0 fc	N/A	N/A	< 5FTC, 30-6, 12D, 2.b.iv
P/L @ SW 43 Street	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	< 5FTC, 30-6, 12D, 2.b.iv
P/L South (Multifamily)	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	< 1FTC, 30-6, 12D, 2.b.i
P/L West	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	< 1FTC, 30-6, 12D, 2.b.i
Area West and South of Parking	+	0.1 fc	1.1 fc	0.0 fc	N/A	N/A	NA, INFORMATIONAL PURPOSES ONLY

- NOTES:
- NO LIGHT ABOUT 90 DEGREES ABOVE HORIZONTAL PLANE AT FIXTURE HEIGHT
 - LUMINAIRES ARE FULL CUT-OFF.
 - THE MAXIMUM MOUNTING HEIGHT IS 30' (30-6.12.D.1.e)
 - ALL PARKING LOT LIGHTING ARE GRU RENTAL LIGHTS AND POLES.
 - THE LUMINAIRES AND ARMS ARE TO BE GREY
 - POLES ARE 35' CONCRETE POLES BURIED 5' WITH 10' ARMS FOR 30' MOUNTING HEIGHT.
 - LIGHTS ARE CONTROLLED BY INDIVIDUAL PHOTOCELLS.
 - THE LIGHTING DESIGN MEETS THE SPECIFIC ILLUMINATION REQUIREMENTS FOR PARKING LOT LIGHTING (30-6.12.E.4.a&b).
 - POLES ARE TO BE INSTALLED 3" BEHIND BACK OF CURB OR 1' FROM SIDEWALK.
 - CUSTOMER MUST COMPLETE A GRU RENTAL LIGHTING APPLICATION
 - COORDINATE INSTALLATION WITH GRU
 - SIDEWALK LIGHTING NOT WITHIN SCOPE OF THIS PROJECT.
 - PHOTOMETRICS INCLUDE GRU RENTAL LIGHTS ONLY, NO SPORTS LIGHTING.

Page L - 94.00

Description	Manufacturer	Catalog No.	Stock No.
LUMINAIRE, LED ROADWAY CUTOFF 3, GRAY WITH DIE-CAST ALUMINUM HOUSING. SEE COMPLETE SPECIFICATIONS ON PAGE L-90.00 THRU L-90.03.	GENERAL ELECTRIC	ERLH-0-13-C3-30-A-GRAY-GLR-052	58337-5
GENERAL ELECTRIC	ERLH-0-13-C3-30-A-GRAY-GLR-052		
EOI ("o-lite-star")	ESJ-FA013P03230M-135FIU1-1542N		
CREE, INC. DELETED (DOES NOT MEET MIN. LUMEN REQUIREMENTS)	BXSP-C-HT-3ME-F-30K-UL-SV-N-Q9 WITH XA-XSP4TMMT		
GENERAL ELECTRIC	ERLH-0-13-G1-30-A-GRAY-GLR		
THIS CATALOG NUMBER HAS BEEN REVISED (SEE ABOVE)			
HOUSE SHIELD	GENERAL ELECTRIC	ELSHS-ERL1-39902-7	39902-7

NOTE:
20 YEAR PHOTOCONTROL LISTED ON ELECTRIC STANDARDS PAGE P-5.45, S/N 58121-6

Revision Date:
9-26-17 KLC
10-4-17 KLC
3-9-18 KLC
10-1-18 KLC
3-18-19 KLC

Gainesville Regional Utilities
Electric System Approved Materials Manual

ITEM NAME: **LUMINAIRE, LED ROADWAY CUTOFF 3 (3000K) (III) - GRAY**

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Light Loss Factor	Total Lamp Lumens	Wattage	Distribution	Notes
+	A	8	GE LIGHTING SOLUTIONS	ERLH_13C330	Evolve LED Roadway Streetlight-ERLH	LED	1	0.9	12500	111	TYPE III	GRU Rental Light, 30' Mounting height, 35' Concrete Pole, 10' arm.(GRU Type 3 luminaire)

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

WILLIAM T. STORMANT, P.E.
ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615
stormantwt@cox.net
(352) 665-1426
P.E. No.: 44156

Professional Consultants

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Alachua, Florida 32615
(352) 331-1976
www.chix-inc.com
est. 1988 FLORIDA CA-5075

SCALE: 1"=20'
REVISED SCALE ON ORIGINAL DRAWING
0 IN ANY CASE, THE SCALE OF THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/REV REVISIONS

SUBMITTALS
03/11/20 VOLLEYBALL LIGHTING ADDED
10/6/22 MOVED L2

CLIENT: CAUSSEAU, HEWITT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING
PROJECT: FOREST PARK SPORTSLIGHTING

REVISIONS:
DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER: 00-0000

SHEET TITLE: PHOTOMETRIC PLAN FOR PARKING LOT
SHEET NUMBER: 00-0000

P1

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

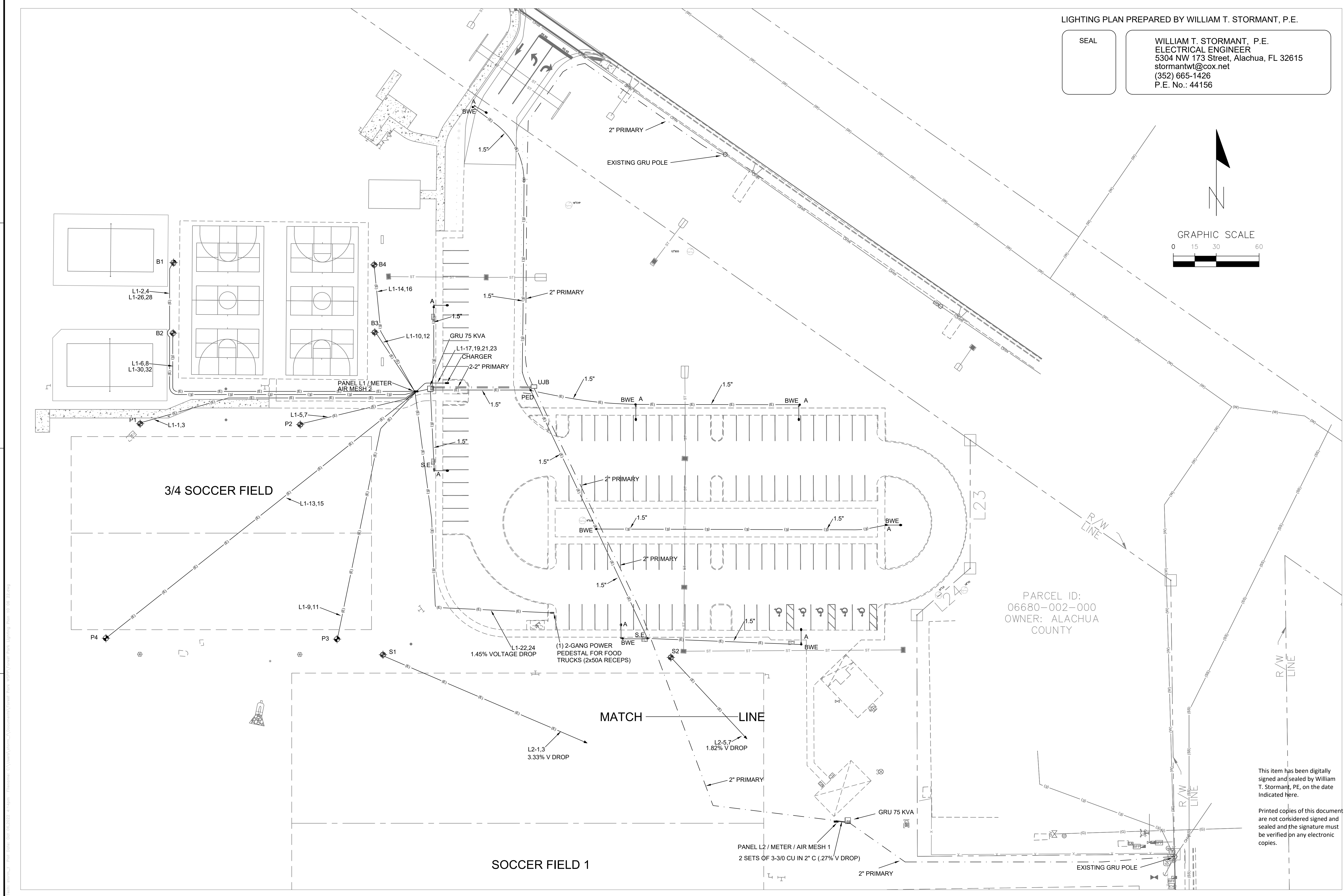
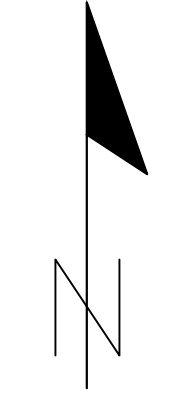
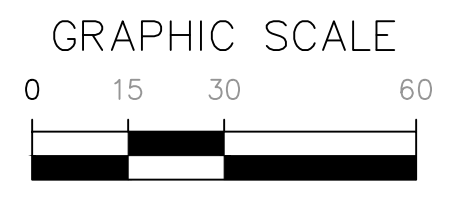
SEAL

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 ELECTRICAL ENGINEER
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 P.E. No.: 44156

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 Alachua, Florida 32615
 (352) 331-1976
 www.chw-inc.com
 est. 1988 FLORIDA
 CA-5075



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 SCALES ACCORDINGLY.



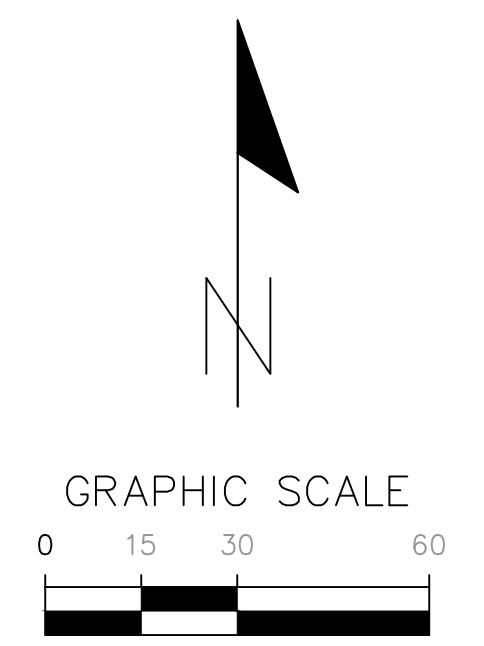
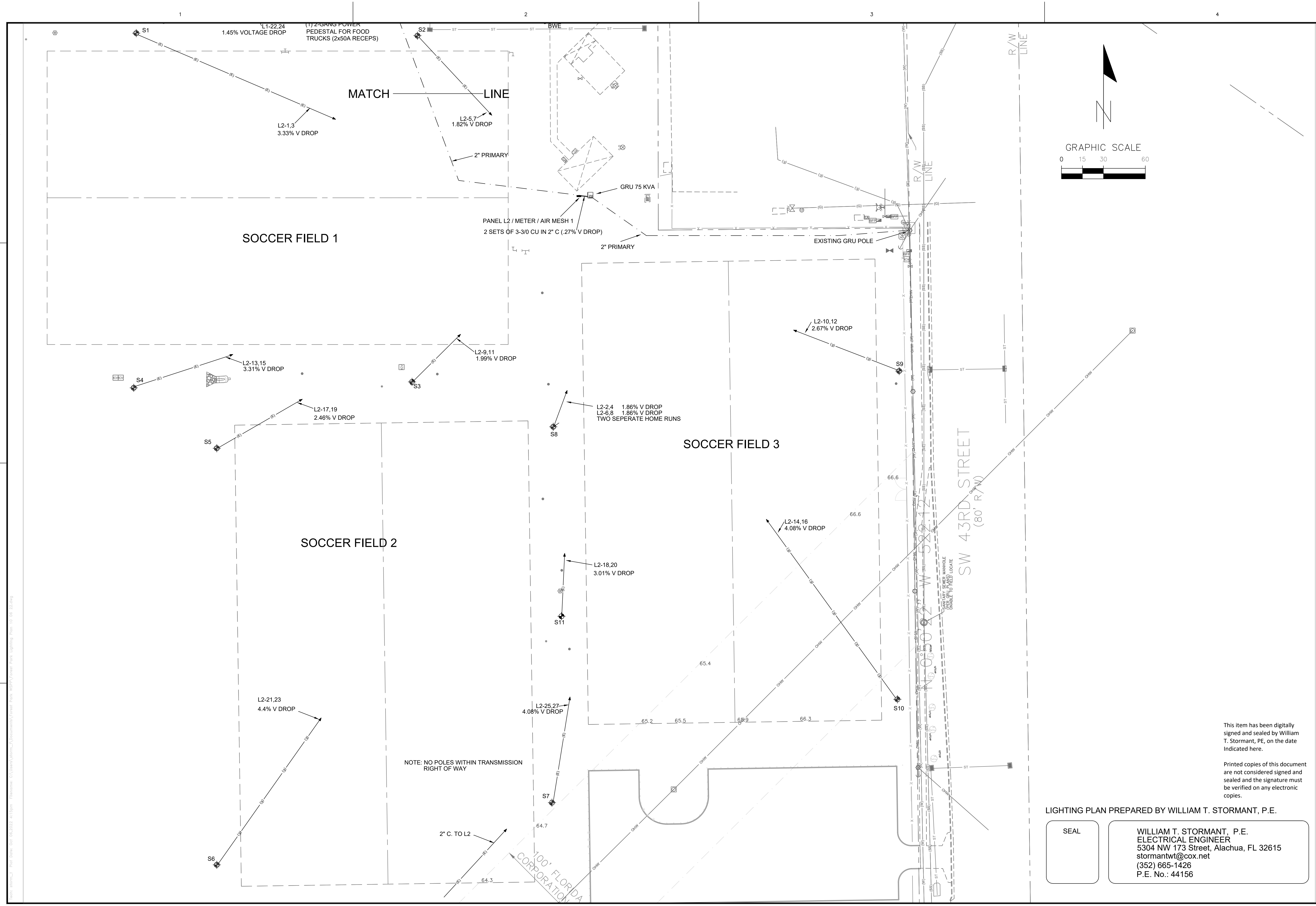
PARCEL ID:
 06680-002-000
 OWNER: ALACHUA
 COUNTY

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C:\Users\stormant\Documents\Lighting Plans\10-08-23.dwg
 Plot Date: 04/08/2024 4:14pm
 Plotter: HP DesignJet T1100e
 Plot Scale: 1"=20'
 Plot Size: 36x48 inches
 Plot Orientation: Landscape
 Plot Color: Black
 Plot Lineweight: 0.25
 Plot Font: Arial, 10pt
 Plot Title: LIGHTING LAYOUT
 Plot Sheet: 00-0000

REGION:	FLORIDA
DESIGNER:	CAUSSEAU, HEWITT, & WALPOLE, INC.
QUALITY CONTROL:	ENGINEERING - SURVEYING - PLANNING
PROJECT NUMBER:	03/11/20 VOLLEYBALL LIGHTING ADDED 10/6/22 MOVED L2
PROJECT:	FOREST PARK SPORTSLIGHTING
SHEET TITLE:	LIGHTING LAYOUT
PROJECT NUMBER:	00-0000
SHEET NUMBER:	00-0000
SHEET NO.:	P2



SOCCER FIELD 1

SOCCER FIELD 2

SOCCER FIELD 3

SW 43RD STREET
(80' R/W)

NOTE: NO POLES WITHIN TRANSMISSION RIGHT OF WAY

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LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

WILLIAM T. STORMANT, P.E.
ELECTRICAL ENGINEER
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P.E. No.: 44156

<p>11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075</p> <p>CHW Professional Consultants</p>	
<p>SCALE: 1"=20' REFER TO SHEET ON ORIGINAL DRAWING 0 MAY BE USED FOR THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	<p>CONSTRUCTION/REV REVISIONS</p>
<p>CLIENT: CAUSSEAU, HEWITT, & WALPOLE, INC. ENGINEERING - SURVEYING - PLANNING PROJECT: FOREST PARK SPORTSLIGHTING</p>	<p>DATE: 03/11/20 10/6/22 MOVED L2</p>
<p>DESIGNER: [Blank] QUALITY CONTROL: [Blank]</p>	<p>SHEET TITLE: LIGHTING LAYOUT PROJECT NUMBER: 00-0000</p>
<p>SHEET NO.: P3</p>	

BRANCH CIRCUIT PANELBOARD SCHEDULE

PANEL L1

FOR 240/120 VOLT, SINGLE PHASE, 3-WIRE SERVICE. PROVIDE ALL SPARE BREAKERS AND GROUND BAR.
400 AMP. MAIN BREAKER, 22,000 AIR SYMMETRICAL FULLY RATED ALL BREAKERS. 100% NEUTRAL. SERVICE ENTRANCE RATED.

SERVING POLE	ZONE	WIRE		BREAKER	CIR NO	CONNECTED LOAD VA		CIR NO	BREAKER		WIRE		SERVING POLE	ZONE	
		HOT	NEUT			GRD	AMPS		POLES	HOT	NEUT	GRD			AMPS
LIGHT POLE P-1 - SOCCER "3/4"		8		8	50	2	1	2270	1776	2	2	50	8	4	LIGHT POLE B1 - BASKET BALL (EASTSIDE OF POLE)
		8					3							4	
LIGHT POLE P-2 - SOCCER "3/4"		8		8	50	2	5	2270	1776	6	2	50	8	4	LIGHT POLE B2 - BASKET BALL (EASTSIDE OF POLE)
		8					7							4	
LIGHT POLE P-3 - SOCCER "3/4"		8		8	50	2	9	2270	1776	10	2	50	8	4	LIGHT POLE B3 - BASKET BALL
		8					11							4	
LIGHT POLE P-4 - SOCCER "3/4"		8		8	50	2	13	2270	1776	14	2	50	8	4	LIGHT POLE B4 - BASKET BALL
		8					15							4	
CHARGER 1 - PORT 1		8	10	40	2	17	6656	180	18	1	20	12	12	12	AIRMESH 2-BBALL/3/4 SOCCER SPACE
		8					19								
CHARGER 1 - PORT 2		8	10	40	2	21	6656	*19200	22	2	100	8	3/0	3/0	FOOD COURT PEDESTAL
		8					23							3/0	
							25	1776	26	2	50	8	4	4	LIGHT POLE B1 - VOLLEYBALL (WESTSIDE OF POLE)
							27							4	
							29	1776	30	2	50	8	4	4	LIGHT POLE B2 - VOLLEYBALL (WESTSIDE OF POLE)
							31							4	
							33								
							35								
							37								
							39		40	2	*				TVSS
							41		42						

LIGHTS X 1.25 = 29728 VA (23,782 VA CONNECTED)
 CHARGERS X 1.25 = 16640 VA (13,312 VA CONNECTED)
 FOOD TRUCKS = 19200 VA (* ASSUMED 80% OF 100 A)
 AIR MESH = 180 VA

TOTAL = 65748 VA (274 AMP, PROVIDE 400 AMP SERVICE)

* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.

BRANCH CIRCUIT PANELBOARD SCHEDULE

PANEL L2

FOR 240/120 VOLT, SINGLE PHASE, 3-WIRE SERVICE. PROVIDE ALL SPARE BREAKERS AND GROUND BAR.
400 AMP. MAIN BREAKER, 22,000 AIR SYMMETRICAL FULLY RATED ALL BREAKERS. 100% NEUTRAL.

SERVING POLE	ZONE	WIRE		BREAKER	CIR NO	CONNECTED LOAD VA		CIR NO	BREAKER		WIRE		SERVING POLE	ZONE	
		HOT	NEUT			GRD	AMPS		POLES	HOT	NEUT	GRD			AMPS
LIGHT POLE S1 - SOCCER 1		6		8	60	2	1	5297	5297	2	2	60	8	6	LIGHT POLE S8 - SOCCER 2 (WESTSIDE OF POLE)
		6					3							6	
LIGHT POLE S2 - SOCCER 1		6		8	60	2	5	5297	5297	6	2	60	8	6	LIGHT POLE S8 - SOCCER 3 (EASTSIDE OF POLE)
		6					7							6	
LIGHT POLE S3 - SOCCER 1		6		8	60	2	9	5297	5297	10	2	60	8	6	LIGHT POLE S9 - SOCCER 3
		6					11							6	
LIGHT POLE S4 - SOCCER 1		6		8	60	2	13	5297	5297	14	2	60	8	6	LIGHT POLE S10 - SOCCER 3
		6					15							6	
LIGHT POLE S5 - SOCCER 2		6		8	60	2	17	4540	5297	18	2	60	8	6	LIGHT POLE S11 - SOCCER 3
		6					19							6	
LIGHT POLE S6 - SOCCER 2		6		8	60	2	21	4540	180	22	1	20	12	12	AIRMESH 1- SOCCER 1, 2, 3
		6					23								
LIGHT POLE S7 - SOCCER 2		6		8	60	2	25	4540		26					
		6					27								
							29								
							31								
							33								
							35								
							37								
							39		40	2	*				TVSS
							41		42						

LIGHTS X 1.25 = 85129 VA (68103 VA CONNECTED)
 AIR MESH = 180 VA

TOTAL = 85309 VA (355 AMP, PROVIDE 400A SERVICE 2 SETS 3-3/0 IN 2"C)

* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.

ZONE SCHEDULE

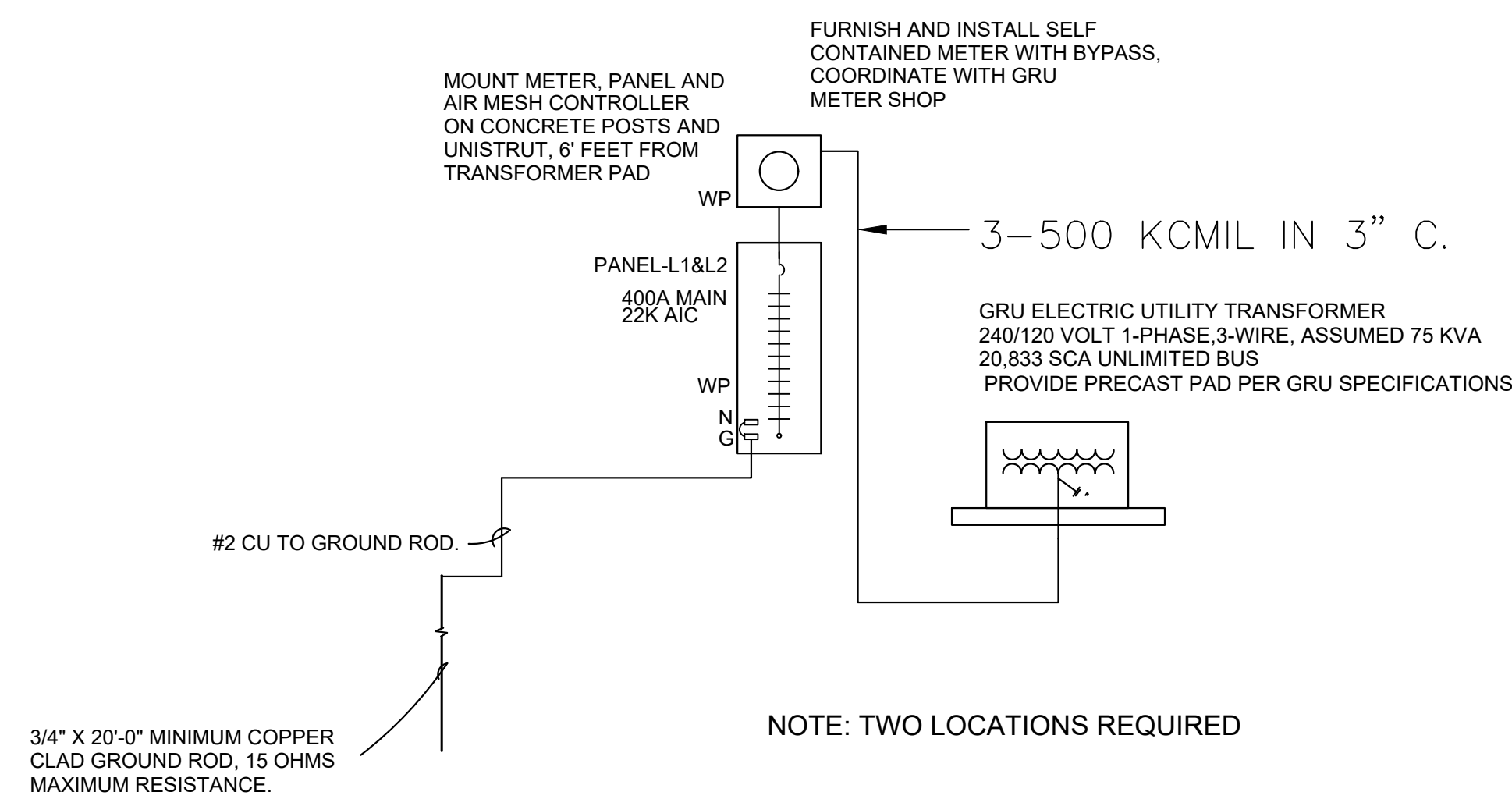
NO CONTACTORS, ALL POLES CONTROLLED VIA THE RESPECTIVE AIR MESH

SERVING POLE	ZONE	CONTROL CABINET	QUAN OF LIGHTS
LIGHT POLE S-1 - SOCCER 1		AIR MESH 1	6
LIGHT POLE S-2 - SOCCER 1			6
LIGHT POLE S-3 - SOCCER 1			6
LIGHT POLE S-4 - SOCCER 1			6
LIGHT POLE S-3 - SOCCER 2			6
LIGHT POLE S-4 - SOCCER 2			6
LIGHT POLE S-5 - SOCCER 2			6
LIGHT POLE S-6 - SOCCER 2			6
LIGHT POLE S-5 - SOCCER 3			6
LIGHT POLE S-6 - SOCCER 3			6
LIGHT POLE S-7 - SOCCER 3			6
LIGHT POLE S-8 - SOCCER 3			6
LIGHT POLE P-1 - SOCCER "3/4"		AIR MESH 2	3
LIGHT POLE P-2 - SOCCER "3/4"			3
LIGHT POLE P-3 - SOCCER "3/4"			3
LIGHT POLE P-4 - SOCCER "3/4"			3
LIGHT POLE B-1 - BASKETBALL	FRONT		3
LIGHT POLE B-2 - BASKETBALL	FRONT		3
LIGHT POLE B-3 - BASKETBALL			3
LIGHT POLE B-4 - BASKETBALL			3
LIGHT POLE B-1 - VOLLEYBALL	BACK		3
LIGHT POLE B-2 - VOLLEYBALL	BACK		3

POLE SCHEDULE

* THIS POLE UTILIZES BACK TO BACK OR SIDE BY SIDE MOUNTING CONFIGURATION TO LIGHT MULTIPLE ZONES. MULTI-ZONE POLES WILL HAVE MULTIPLE LIGHTING CIRCUITS.

POLES	MOUNTING HEIGHT	WATTS PER LAMP	QTY OF LED LAMPS/POLE
S1-12	60'	681	6
P1-P4 (3/4 SIZE SOCCER FIELD)	50'	681	3
B1-B4	50'	532	3



BASKETBALL COURTS & SOCCER FIELD LIGHTING ELECTRICAL DISTRIBUTION ONE LINE DIAGRAM

NOT TO SCALE

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

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REVISIONS
 CONSTRUCTION/REV REVISIONS

DRAWING NO.: 03/11/20 VOLLEYBALL LIGHTING ADDED
 10/6/22 MOVED L2

CHECKED BY: CAUSSEAUX, HEWETT, & WALPOLE, INC.
 PROJECT: FOREST PARK SPORTS LIGHTING
 SHEET TITLE: PANELS AND ONE LINE

PROJECT NUMBER: 00-0000

DESIGNED BY: [Blank]
 QUALITY CONTROL: [Blank]
 PROJECT NUMBER: [Blank]
 SHEET NUMBER: 00-0000

SHEET NO.: P4

Test: Stormant Plot Date: 09/06/2022 4:15pm Filename: C:\Users\stormant\Documents\Forest Park Sports Lighting Plot_10_06_22.dwg

ELECTRICAL SPECIFICATIONS

A. GENERAL

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS FOR THE FOLLOWING COMPLETE AND OPERATING SYSTEMS: UTILITY CONDUIT (PRIMARY AND PARKING RENTAL LIGHTING) INFRASTRUCTURE, AND COMPLETE SPORTS LIGHTING SYSTEMS.
- THE SPORTS LIGHTING SYSTEM SHALL BE PROVIDED AS DESIGNED IN THE SHEET TITLED FOREST PARK BY NGU SPORTS LIGHTING, INC. BASIS OF DESIGN IS NGU SPORTS LIGHTING INC, EPHEBUS LED SPORTS LIGHTING SYSTEM.
- OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED TO INSTALL THE COMPLETE SYSTEMS.
- IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.
- THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING:
 - NFPA 70, NATIONAL ELECTRICAL CODE LATEST EDITION
 - NECA STANDARD OF INSTALLATION
 - NFPA 72 LATEST ADOPTED REVISION
 - FLORIDA BUILDING CODE LATEST REVISIONS.
 - NFPA 101 LATEST ADOPTED REVISION
 - ADA LATEST ADOPTED REVISION
 - GAINESVILLE REGIONAL UTILITY STANDARDS AND POLICIES.
 - UNDERWRITER'S LABORATORY STANDARDS (UL).
 - CITY OF GAINESVILLE CODE OF ORDINANCES
 - ILLUMINATION ENGINEERING SOCIETY HANDBOOK 10TH EDITION
 - OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.

B. MATERIALS AND WORKMANSHIP

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY PLACEMENT OF ALL CONDUITS, JUNCTION BOXES, CABINETS, TEMPORARY ELECTRICAL SERVICE, SPORTS LIGHTING ASSEMBLIES AND OTHER WIRING DEVICES AS THE CONSTRUCTION PROGRESSES.
- OUTLET BOXES SHALL BE STEEL 4" SQUARE X 1.5" DEEP MINIMUM LOCATED AS FOLLOWS:
 - WALL SWITCHES 48" ABOVE FINISHED FLOOR TO CENTERLINE TO MEET ADA.
 - CONVENIENCE OUTLETS 18" ABOVE FINISHED FLOOR OR AS NOTED.
 - EQUIPMENT OUTLETS AS REQUIRED BY THE EQUIPMENT.
- WIRING SYSTEMS SHALL BE AS FOLLOWS:
 - UNDERGROUND MAY BE SCHEDULE 40 PVC.
 - MC CABLE OR EMT WHERE PERMITTED BY CODE.
 - RIGID GALVANIZED STEEL WHERE REQUIRED BY CODE.
 - FLEXIBLE STEEL CONDUIT WHERE REQUIRED, LIQUID TIGHT WHERE REQUIRED.
- CONDUCTORS SHALL BE COPPER TYPE THWN-2.
- CONVENIENCE RECEPTACLES SHALL BE 15 AMP. NEMA 5-15R, UNLESS NOTED OTHERWISE.
- WALL SWITCHES SHALL BE 20 AMP. 120/277 VOLT AC.
- PANELBOARDS SHALL BE BY SQUARE D.
- ALL METAL BOXES, CABINETS, CONDUIT, EQUIPMENT, ETC. SHALL BE GROUNDED AS REQUIRED BY CODE. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR ALL CIRCUITS.
- ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS AND EQUIPMENT SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY, INCLUDING CONTROL WIRING AND WIRING TO CONNECT EXISTING EQUIPMENT.
- FUSES SHALL BE DUAL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.
- ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SPECIFIED BY OTHERS.
- ALL MATERIAL SHALL BE NEW AND UL APPROVED, LISTED, OR LABELED.
- ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.
- CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AT PANELS L1 & L2 CAPABLE OF PROVIDING 40 KA PROTECTION PER PHASE. SERVICE ENTRANCE RATED AND UL 1449 LISTED.

ELECTRICAL NOTES

- FOR THE UTILITY SYSTEM, INSTALL LONG RADIUS SWEEPS AT UTILITY POLE, PADS AND ALL CHANGES OF DIRECTION. INSTALL PRIMARY CONDUITS WITH 48" COVER STREET LIGHT CONDUITS WITH 36" OF COVER. VERIFY REQUIREMENTS WITH GRU. PROVIDE SINGLE PHASE TRANSFORMER PADS (B-3), JD JUNCTION BOXES (B-21), JD SERVICE ENCLOSURES (B-24), 10" BURIED WIRE ENCLOSURES (B-26) PADS AS PER GRU REQUIREMENTS. PAGES NOTED IN PARENTHESIS ARE FOUND IN GRU ED SERVICE GUIDE APPENDICES.
- COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC. WITH ARCHITECTURAL AND CIVIL PLANS PRIOR TO INSTALLATION. DO NOT SCALE ELECTRICAL DRAWINGS.
- NOT USED.
- PROVIDE INSULATED GROUNDING CONDUCTOR FROM EACH EQUIPMENT CONNECTION AND OUTLET TO GROUNDING BAR IN PANELBOARDS.
- PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
- CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES, CONDUCTORS AND OTHER MATERIALS AND LABOR NECESSARY TO CONNECT PARALLEL OR OVERSIZED FEEDER RUNS WHERE SUCH FEEDERS EXCEED CONNECTION CAPACITY OF CIRCUIT BREAKERS, PANELBOARDS AND OTHER CONNECTION POINTS.
- RISER DIAGRAMS SHOW ONLY THE GENERAL CONFIGURATION OF THE SYSTEM. REFER TO THE APPROPRIATE DRAWINGS FOR EXACT DEVICE, QUANTITIES AND LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL DEVICES.
- ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED IN DAMP AREAS OR OUTDOORS SHALL BE WEATHERPROOF.
- GROUND RODS SHALL BE INSTALLED AT ALL LIGHTING POLES IN ACCORDANCE WITH THE NEC.
- ALL SPORTS LIGHTING FIXTURES SHALL BE FUSED.
- PULL BOXES SHALL BE PROVIDED AS NECESSARY OF SECONDARY CONDUIT RUNS.
- ANY SUBSTITUTIONS MUST BE APPROVED PRIOR TO SUBMITTING BID.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC.
- ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
- EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION SO AS TO AVOID DAMAGE TO EXISTING ITEMS. SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.

ELECTRICAL LEGEND

- S13 SPORTS LIGHTING POLE AND FIXTURES. "S13" INDICATES POLE IDENTIFIER. FOR HEIGHT OF POLE AND NUMBER FIXTURES REFER TO POLE SCHEDULE
- A PARKING LUMINAIRE AND POLE. "A" INDICATES TYPE LUMINAIRE AND POLE.
- UJB UNDERGROUND DISTRIBUTION JUNCTION BOX FOR GRU PRIMARY CABLE.
- SE SERVICE ENCLOSURE - JUNCTION BOX FOR GRU SECONDARY CABLE
- BWE BURIED WIRE ENCLOSURE - 10" ROUND JUNCTION BOX FOR GRU SECONDARY CABLE
- WP DUPLEX RECEPTACLE OUTLET WITH GROUND - NEMA 5-20R WEATHERPROOF 18"A.F.F.
- GF DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTING 18"A.F.F. - NEMA 5-20R
- E EQUIPMENT CONNECTION OUTLET - VERIFY LOCATION
- J JUNCTION BOX
- S SINGLE POLE SWITCH 48"A.F.F. OR AS INDICATED
- T TRANSFORMER
- M METER
- L1 BRANCH CIRCUIT PANELBOARD, "L1" IS PANEL IDENTIFIER
- S SAFETY SWITCH - RATING AND FUSING AS INDICATED
- UT UTILITY TRANSFORMER
- L1-1,3 HOMERUN TO PANELBOARD, "L1" INDICATES THE PANELBOARD NUMBER. "1,3" INDICATES THE BRANCH CIRCUIT NUMBERS.
- C CONDUIT STUB-UP

LIGHTING FIXTURE SCHEDULE

TYPE	VOLTAGE	DESCRIPTION
A	120V	COBRAHEAD, FULL CUTOFF, 140-155W HPS, TYPE 3 DISTRIBUTION STREET LIGHT ON 35' CONCRETE POLE. 30' MOUNTING HEIGHT, 10' ARM GRU RENTAL LIGHT AND POLE. SEE SHEET P1.
	240V	SPORTS LIGHTING - BASIS OF DESIGN NGU EPHEBUS LIGHTING SYSTEM - REFER TO SPORTS LIGHTING SPECIFICATION DOCUMENT FOR DETAILS.

ELECTRICAL ABBREVIATIONS

A	AMPS	HOA	HAND-OFF-AUTOMATIC
AICS	AMPS INTERRUPTING CAPACITY SYMMETRICAL	K	KILO
BKR	BREAKER	LTG	LIGHTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
GRU	GAINESVILLE REGIONAL UTILITIES	NO	NORMALLY OPEN CONTACTS
CU	COPPER	NC	NORMALLY CLOSED CONTACTS
EX	EXISTING TO REMAIN	OHE	OVERHEAD ELECTRIC
F	FUSE	OHP	OVERHEAD PRIMARY
FC	FOOT CANDLES	P	POLE
GF	GROUND FAULT INTERRUPTER	PWR	POWER
GRD	GROUND	RGS	RIGID GALVANIZED STEEL
		SF	SUPPLY FAN
		UGE	UNDERGROUND ELECTRIC
		UGP	UNDERGROUND PRIMARY
		UGS	UNDERGROUND SECONDARY
		UL	UNDERWRITERS LABORATORIES
		V	VOLTS
		VA	VOLT-AMPERES
		VAR	VOLT-AMPERES REACTIVE
		W	WATTS OR WIRE
		WP	WEATHERPROOF
		ø	PHASE

GENERAL SPECIFICATIONS FOR SPORTS LIGHTING SYSTEM

- FURNISH AND INSTALL SPORTS LIGHTING SYSTEMS MEETING IESNA RECOMMENDATIONS FOR RECREATION LEVEL PLAY FOR THE FOLLOWING LOCATIONS: THREE FULL SIZE SOCCER FIELDS, A 3/4 SIZE SOCCER FIELD, TWO BALL COURTS AND TWO VOLLEYBALL COURTS AS SHOWN ON THE PLANS.
- THE BASIS OF DESIGN OF EPHEBUS LIGHTING SYSTEMS. IF A DIFFERENT SYSTEM IS PROPOSED, THE REVISED PHOTOMETRIC PLAN AND EQUIPMENT CUT SHEETS MUST BE SUBMITTED TO THE ENGINEER/OWNER FOR APPROVAL.
- THE LIGHTING SYSTEM IS CONTROLLED BY WAY OF A CELLULAR CONTROLLED WIRELESS MESH SYSTEM THAT IS ACCESSED VIA CELLPHONE AND COMPUTER TERMINAL. THE BASIS OF DESIGN IS LUMASPORT 8 AIRMESH SYSTEM (2 REQUIRED). THIS SYSTEM DOES NOT REQUIRE CONTACTORS.
- THE LIGHTS MUST BE 5700 DEGREES KELVIN, LED AND SHIELDED OR SHROUDED. BASIS OF DESIGN IS EPHEBUS LUMASPORT 8, 240V RATED. REFER TO NGU PLAN FOR TYPE AND QUANTITIES.
- ONE BRANCH CIRCUIT WILL FEED EACH POLE. EACH LIGHT TO BE FUSED INDIVIDUALLY AT POLE LOCATED POWER DISTRIBUTION BOX.
- POLES ARE TO BE SIZED TO MEET FLORIDA BUILDING CODE WIND LOADING REQUIREMENTS. POLES WITHIN 20' OF THE TRANSMISSION LINE SHALL BE DESIGNED TO MEET RISK CATEGORY 4. THE BASIS OF DESIGN IS CONCRETE POLES WITH MOUNTING HEIGHTS AS SHOWN IN THE POLE SCHEDULE.
- ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
- SPORTS LIGHTING SYSTEM SHALL MEET APPLICABLE ILLUMINATING ENGINEERING SOCIETY RECOMMENDATIONS FOR THE BASKET BALL AND SOCCER FIELDS FOUND IN THE IESNA LIGHTING HANDBOOK 10TH EDITION. THE ILLUMINATION LEVELS AT THE SOUTHERN PROPERTY LINE SHALL NOT EXCEED 1 FOOT-CANDLE AS REQUIRED
- THE WIRING FROM THE POLE DISTRIBUTION BOX TO THE LIGHTS SHALL BE PRE TERMINATED BY THE MANUFACTURER.
- THE LIGHTING DESIGN PROPOSAL FROM THE LIGHTING MANUFACTURER SHALL INCLUDE QUOTATION, BILL OF MATERIALS, PHOTOMETRIC DRAWING DESIGN PLAN, PRODUCT SPECIFICATION SHEETS, INSTALLATION MANUALS, AND INSTALLATION DRAWINGS.

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LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

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CONSTRUCTION/REV. REVISIONS

DATE: 03/11/20 VOLLEYBALL LIGHTING ADDED
10/6/22 MOVED L2

CLIENT: CAUSSEAU, HEWITT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING
PROJECT: FOREST PARK SPORTS LIGHTING

REVISION:
DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER: 00-0000

SHEET TITLE: SPECIFICATIONS AND LEGEND
SHEET NO.: P5

Project	Catalog #	Type
Prepared by	Notes	Date



Ephesus LUMASPORT 8

White LED Sports & Entertainment Luminaire

Typical Applications
Pro Arenas • University & Collegiate Arenas • University & Collegiate Stadiums • Multi-Event & Convention Centers • Gymsnasiums & Field Houses

Product Certification



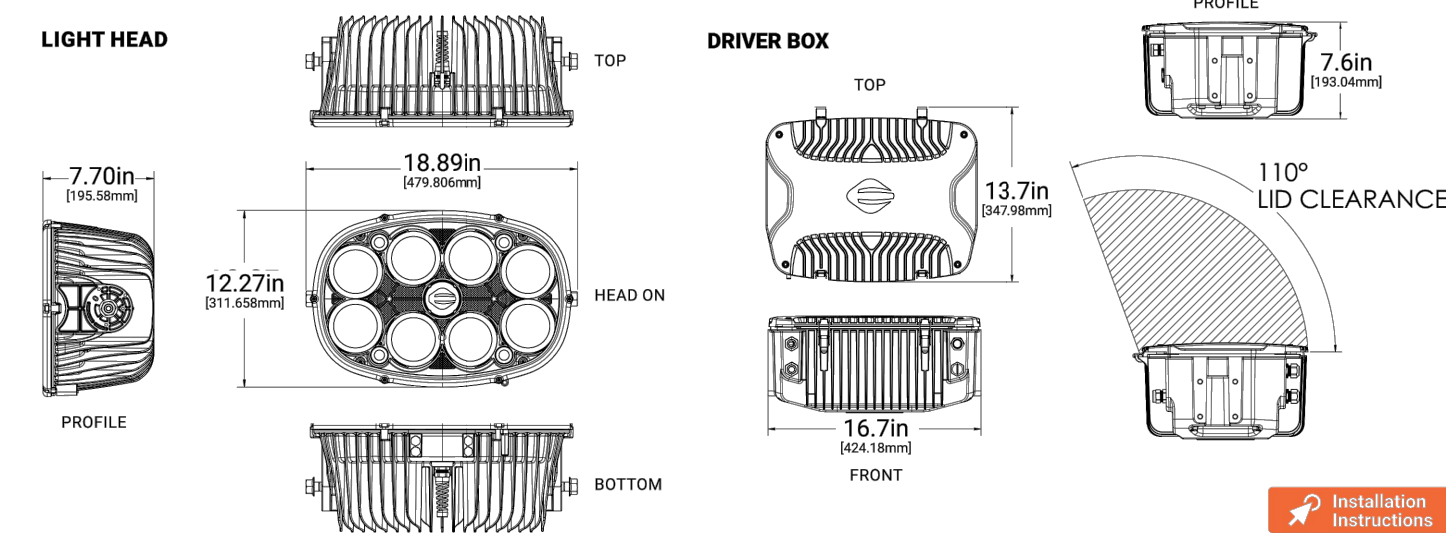
Top Product Features

- 55,000 or 90,000 lumen output options
- Glare and cutoff control via Hybrid Reflector and TIR Optical System
- Reduce install time with pre-aimable two-piece assembly
- Virtually eliminate maintenance with power redundancy
- Industry leading light source reliability with Chip-on-Board LEDs
- Greater than 92% lumen maintenance at 55,000 hours
- Wired DMX or Wireless AirMesh controls options to suit your needs

Interactive Menu

- Dimensional Details page 1
- Ordering Information page 2
- Dimensional and Mounting Details page 3
- Visor (VHE) Configuration page 4
- Performance Data page 5
- Optical Performance Data page 6
- Ordering Information for Accessories page 8
- Accessory Dimensions and Part Details page 9
- Example System Topology page 11

Dimensional Details



COOPER Lighting Solutions

TDS28018EN page 1
December 2, 2020 9:09 AM

LUMASPORT 8

Order Information

NOTE: A complete fixture order requires a selection entry for Brand, Family, Model, Power Configuration, Color, CCT, CRI, Optic, Light Head Cable (DC), Voltage, Control, Mount Configuration, Power Cable (AC), Options, Packaging, & International Option.
SAMPLE ORDER NUMBER: EPH-LS-08-0320L-BLK-40-70-1S-C04-HV-LB-LY-A00-HEG-BP-ST

Brand	Family	Model	Power Configuration	Color	CCT	CRI	Optic	Light Head Cable (DC)
EPH	LS	08	0320L - 320W Local Power 040L - 400W Local Power	BLK - Black WHT - White	40 - 4000K 50 - 5000K 57 - 5700K	70 - 70 CRI 80 - 80 CRI	18 - NEMA 3 17.5 33.3 25 - NEMA 3 21.9 40.2 38 - NEMA 3 25.4 45.7 45 - NEMA 4 26.0 44.4 58 - NEMA 5 26.0 44.4 77 - NEMA 7 22.5 131.0	C04 - 4ft Cable, Standard C10 - 10ft Cable, Catwalk

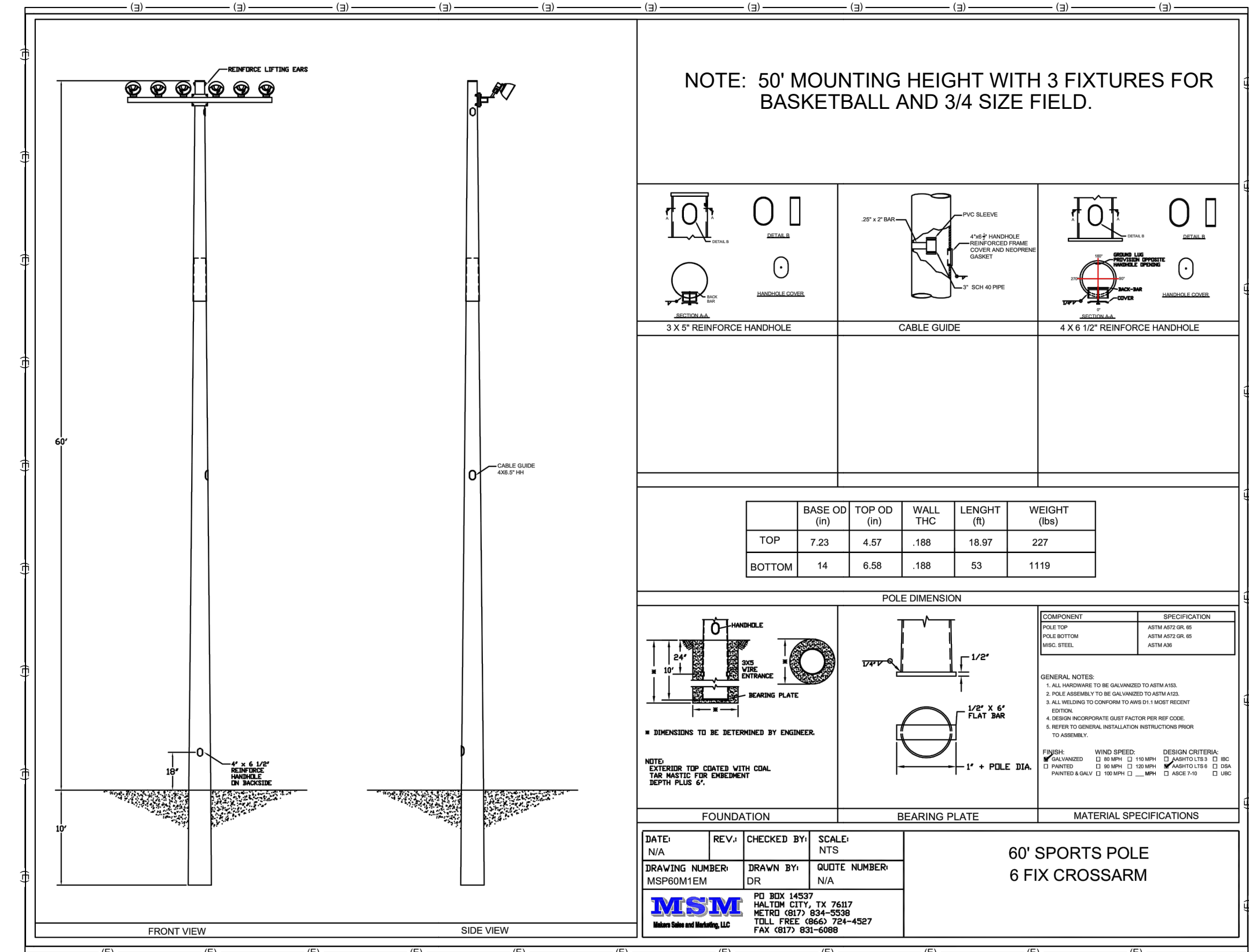
Voltage	Control	Mount Configuration	Power Cable (AC)	Options	Packaging	International Option
LV - Low Voltage HV - High Voltage	AM - Wireless AirMesh LB - Wired DMX NC - No Control	LV - Local Visor LP - Local Pendant	A00 - Standard, No Cable A04 - 4ft Cable A10 - 10ft Cable A15 - 15ft Cable	HEG - No Visor High Efficiency Glass Lens VHE - Visor High Efficiency Glass Lens	BP - Bulk Pack UP - Unit Packaging	ST - Standard

COOPER Lighting Solutions

TDS28018EN page 2
December 2, 2020 9:09 AM

SPORTS LIGHTING FIXTURE

REFER TO NGU PLAN FOR MODEL NUMBERS



SOCCER FIELD POLE EXAMPLE

DO NOT USE FOR POLE SIZING FOR WIND LOADING

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

WILLIAM T. STORMANT, P.E.
ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615
stormantwt@cox.net
(352) 665-1426
P.E. No.: 44156

This item has been digitally signed and sealed by William T. Stormant, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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(352) 331-1976
www.chw-inc.com
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CA-5075

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CONSTRUCTION/REV REVISIONS

03/11/20 VOLLEYBALL LIGHTING ADDED
10/6/22 MOVED L2

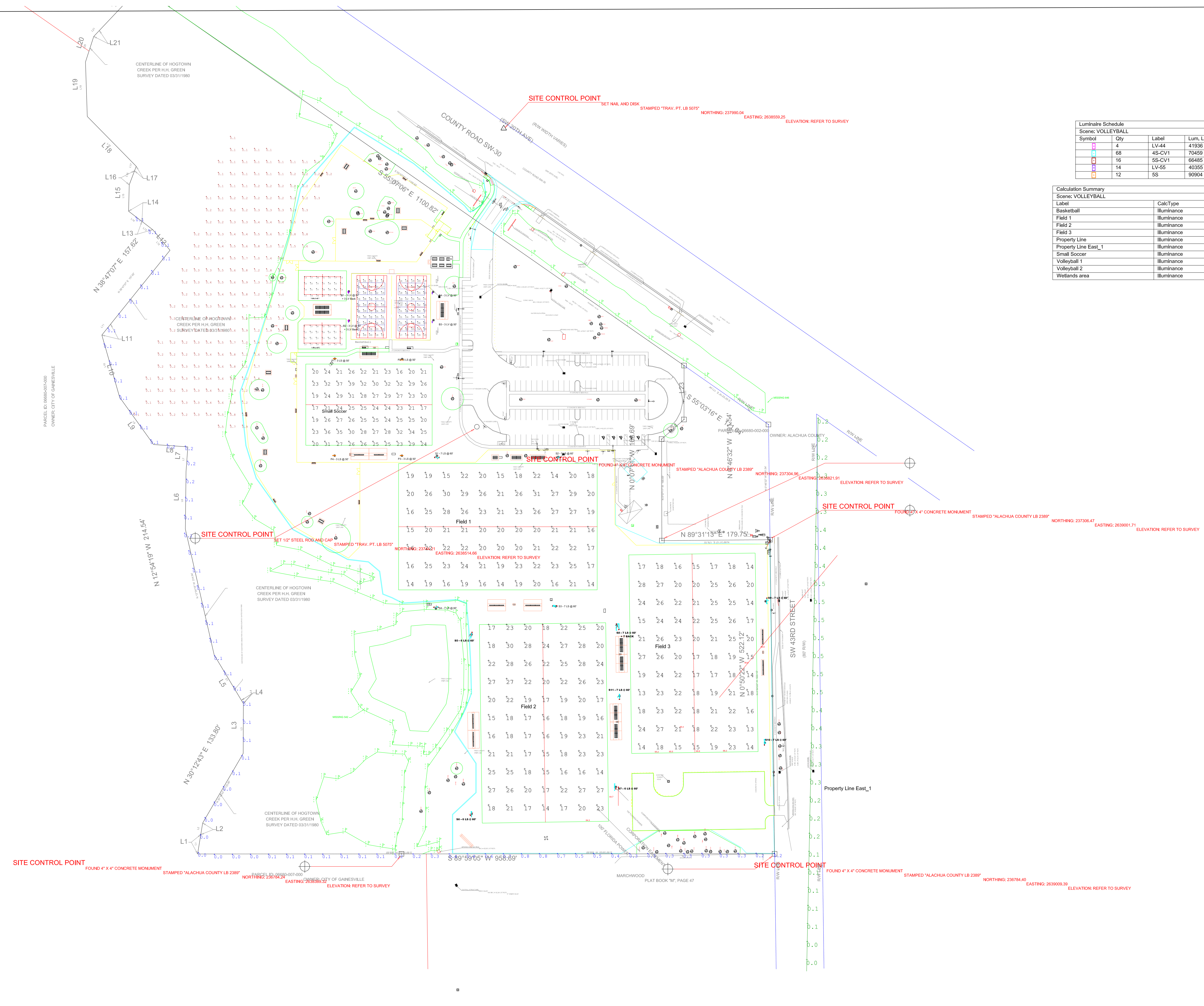
CLIENT: CAUSSEAU, HEWETT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING

PROJECT: FOREST PARK SPORTSLIGHTING

SHEET TITLE: SPORTS LIGHTING CUTSHEETS

PROJECT NUMBER: 00-0000

SHEET NO.: P6



Luminaire Schedule							
Scene: VOLLEYBALL							
Symbol	Qty	Label	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
□	4	LV-44	41936	0.950	EPH-LV-07-950-U-44	532.7	2130.8
□	68	4S-CV1	70459	0.950	EPH-LS-08-0640L-57-70-4S-CV1	697	47396
□	16	3S-CV1	66465	0.950	EPH-LS-08-0640L-57-70-3S-CV1	697	11152
□	14	LV-55	40355	0.950	EPH-LV-07-950-U-55	532.7	7457.8
□	12	IS	90904	0.950	EPH-LS-08-0640L-57-70-5S	681	8172

Calculation Summary									
Scene: VOLLEYBALL									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	CV	UG
Basketball	Illuminance	Fc	22.29	30	14	1.59	2.14	0.16	1.38
Field 1	Illuminance	Fc	20.95	31	14	1.50	2.21	0.19	2.00
Field 2	Illuminance	Fc	20.88	30	14	1.49	2.14	0.19	1.93
Field 3	Illuminance	Fc	20.26	28	13	1.56	2.15	0.20	1.79
Property Line	Illuminance	Fc	0.19	0.8	0.0	N.A.	N.A.	N.A.	N.A.
Property Line East_1	Illuminance	Fc	0.29	0.5	0.0	N.A.	N.A.	N.A.	N.A.
Small Soccer	Illuminance	Fc	25.71	39	16	1.81	2.44	0.19	2.00
Volleyball 1	Illuminance	Fc	20.00	30	12	1.67	2.50	0.27	1.60
Volleyball 2	Illuminance	Fc	19.75	29	9	2.19	3.22	0.29	1.60
Wetlands area	Illuminance	Fc	0.57	3.2	0.1	5.70	32.00	N.A.	N.A.

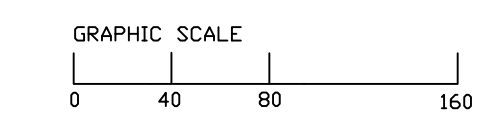
Scene/Channel Summary		
Scene: VOLLEYBALL		
Channel		# Lums
BASKETBALL		12
FIELD 1		28
FIELD 2		28
FIELD 3		28
SMALL SOC		12
VOLLEYBALL		6

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 Palm Beach Gardens, FL 33410
 www.NGUsportlighting.com
 Phone: 1-855-NGU-LEDS
 Passion and Commitment exclusively for Ephesus LED Sports Lighting

**FOREST PARK
 GAINESVILLE, FL
 ALL FIELDS AND PROPERTY LINES
 NEW SITE PLAN, CHANGE TO VB + POLE S11**

DESIGNED BY H. JOHNSON, LC	DATE 10/4/2022	SCALE 1" = 80'	DRAWING NUMBER LD21304F
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FOREST PARK

GAINESVILLE, FLORIDA

HARDSCAPE, LANDSCAPE, & IRRIGATION

100% CONSTRUCTION DOCUMENTS

October 6, 2022

Prepared by:



11801 Research Drive
Alachua, FL 32615
352.331.1976 tel

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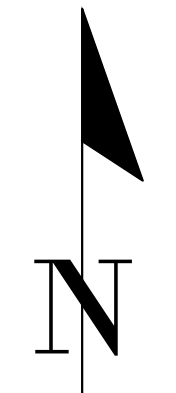
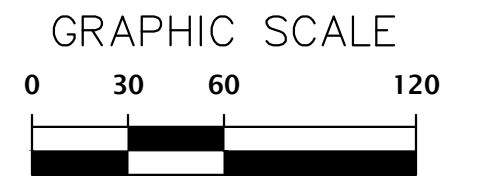
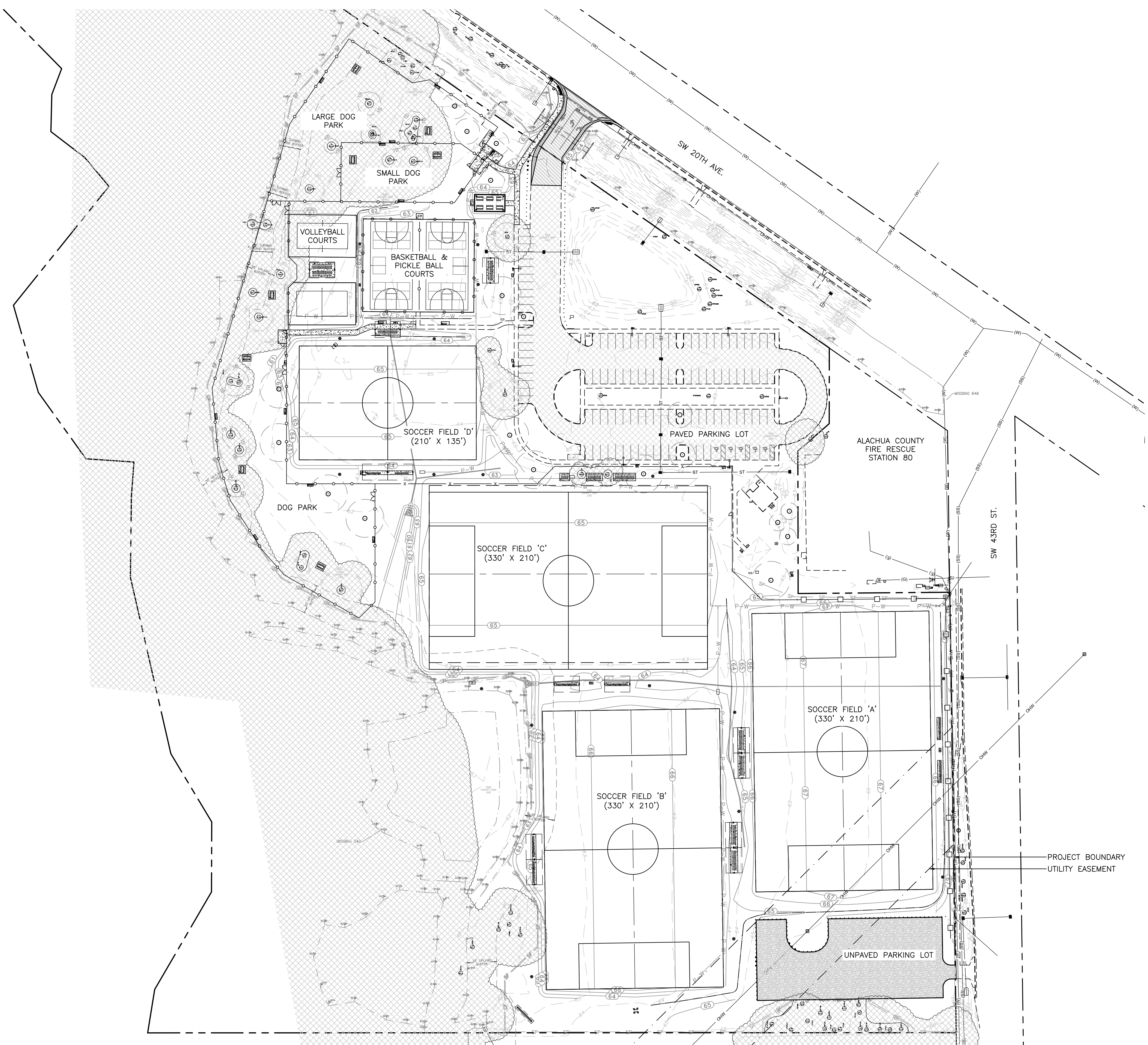
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L-202	LAYOUT & HARDSCAPE PLAN
L-203	LAYOUT & HARDSCAPE PLAN
L-204	LAYOUT & HARDSCAPE PLAN
L-205	LAYOUT & HARDSCAPE PLAN
L-206	LAYOUT & HARDSCAPE PLAN
L-207	LAYOUT & HARDSCAPE PLAN
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L-209	HARDSCAPE DETAILS
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8/15/2022 - BID DOCUMENTS
10/6/2022 - BID SET

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PROJECT: FOREST PARK WSP

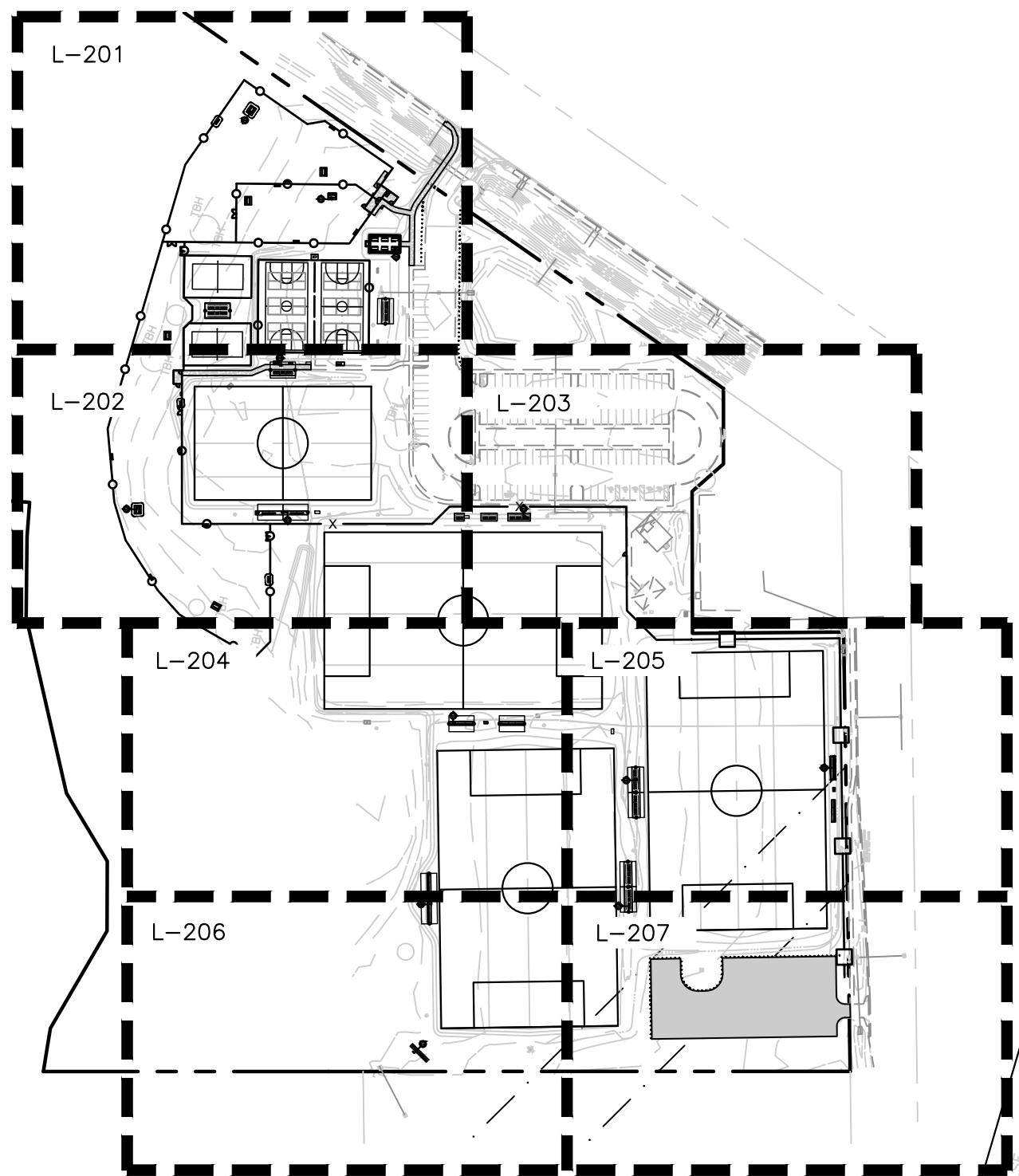
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QUALITY CONTROL: CT

PROJECT NUMBER: 21-0219

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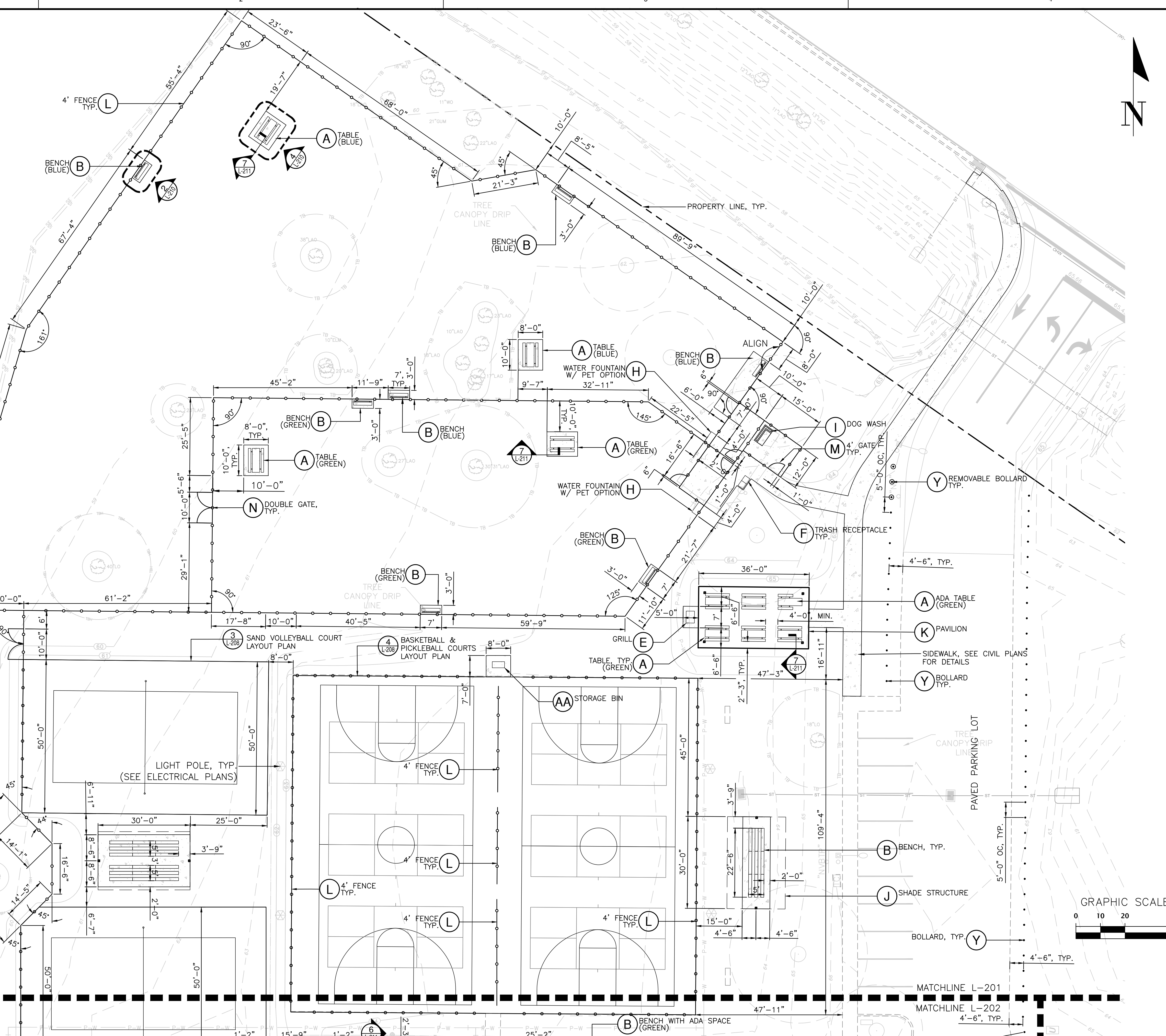
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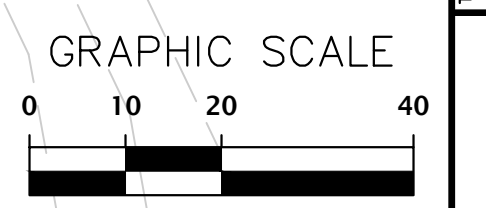


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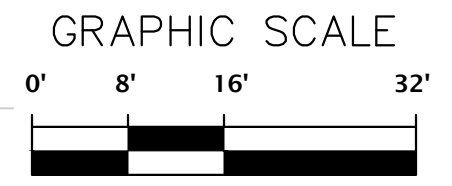
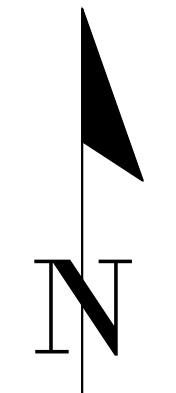
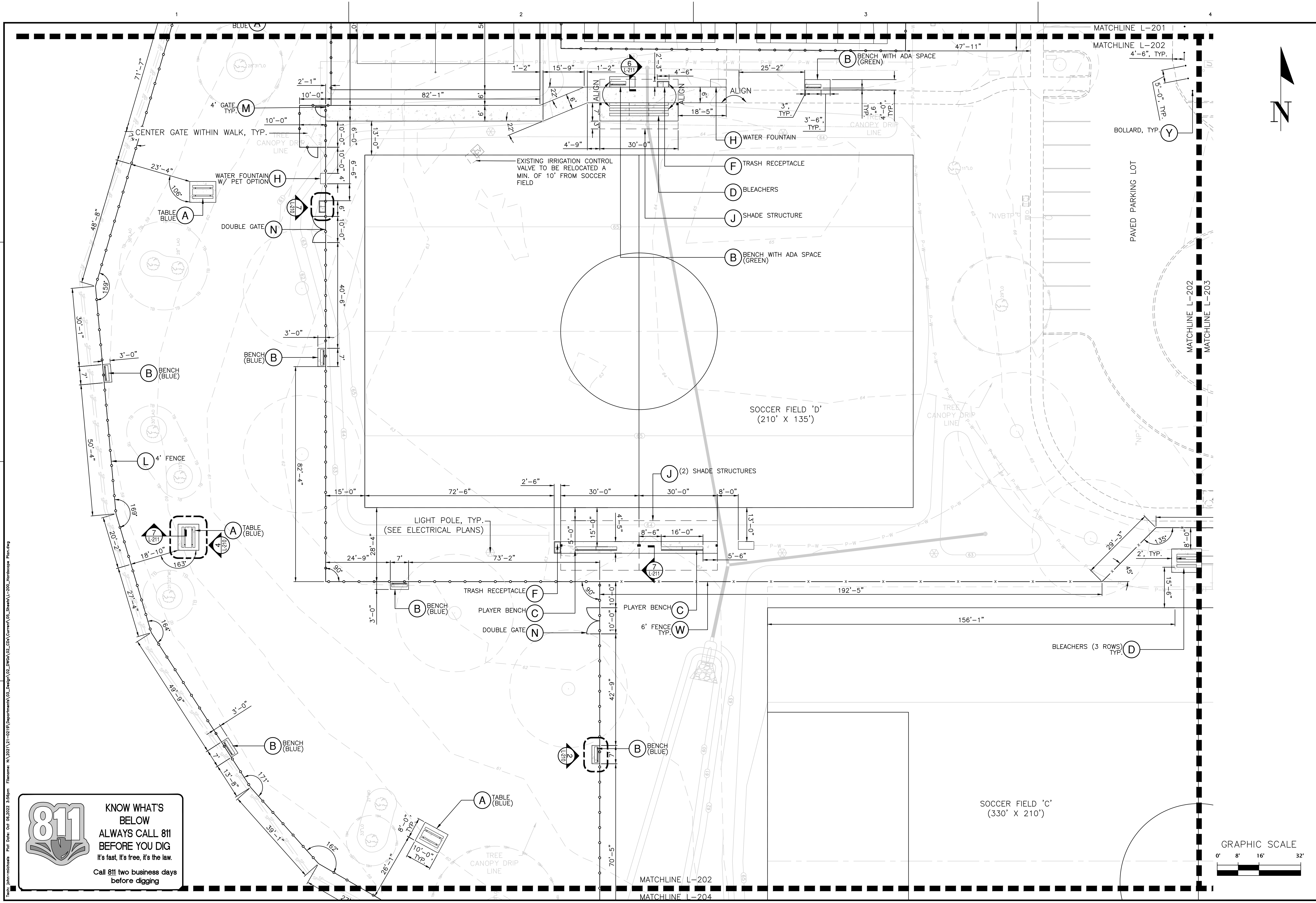


- (A) ADA TABLE (GREEN)
- (K) PAVILION
- (S) SIDEWALK, SEE CIVIL PLANS FOR DETAILS
- (Y) BOLLARD TYP.



MATCHLINE L-201
MATCHLINE L-202
4'-6", TYP.

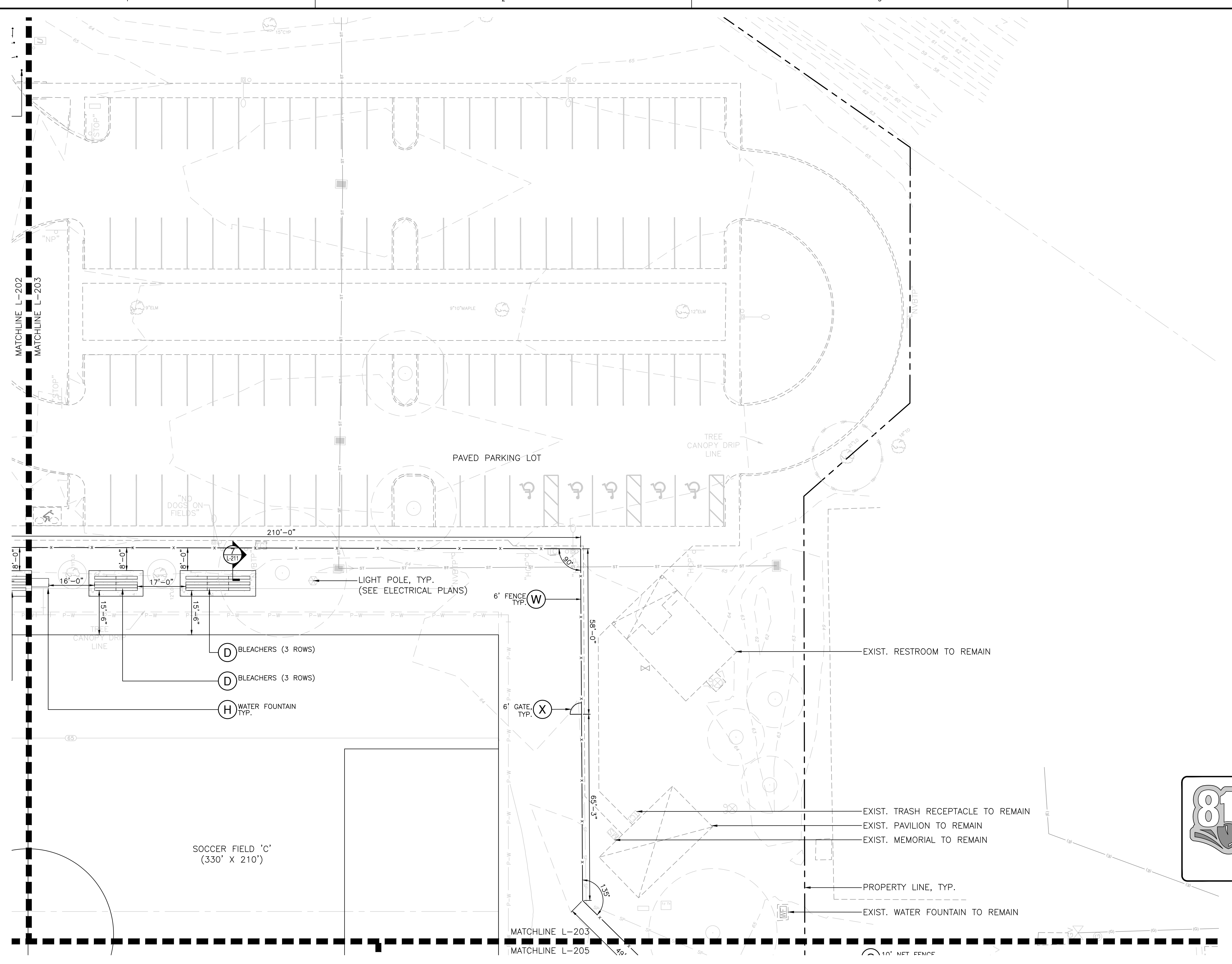
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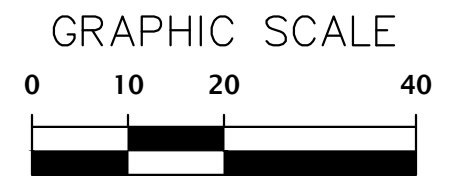
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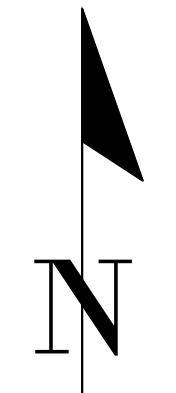
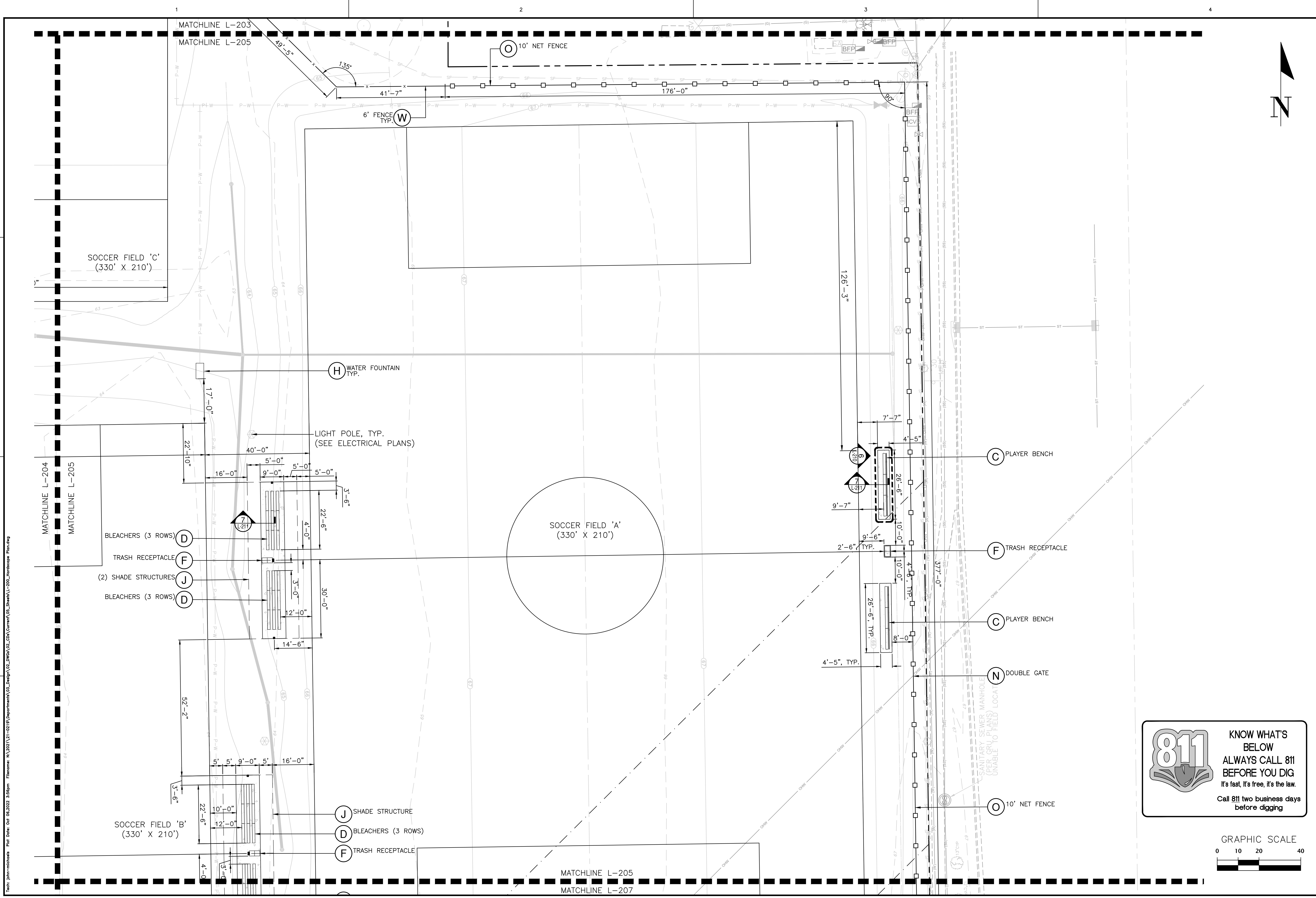
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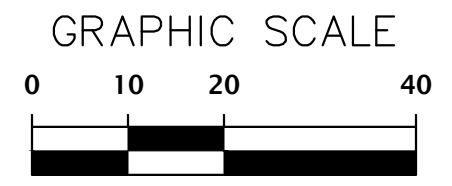
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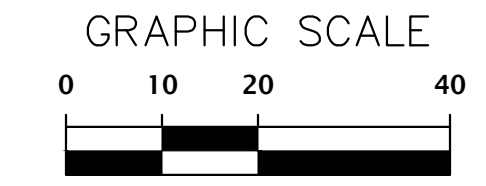
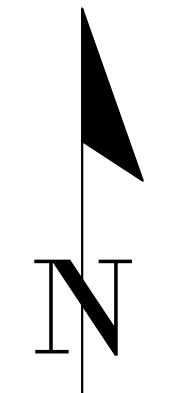
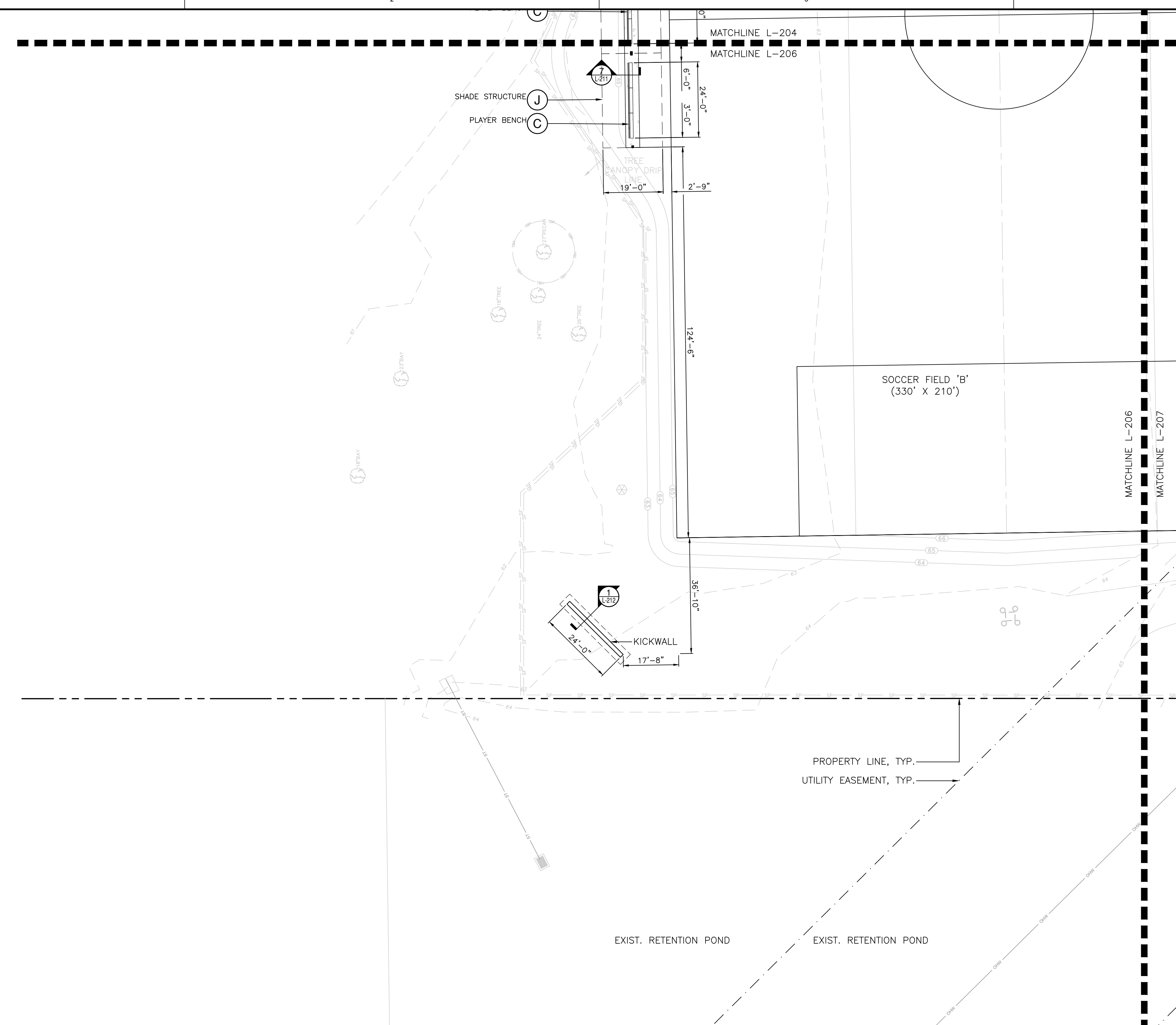
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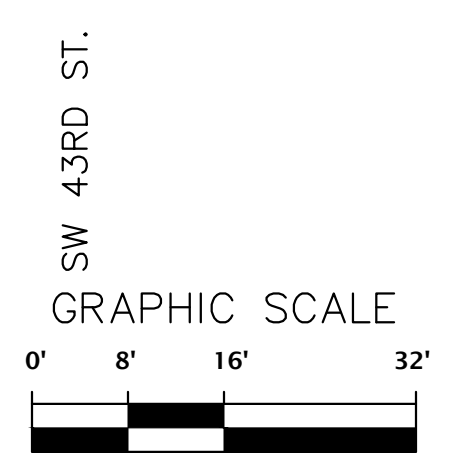
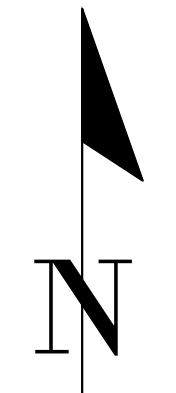
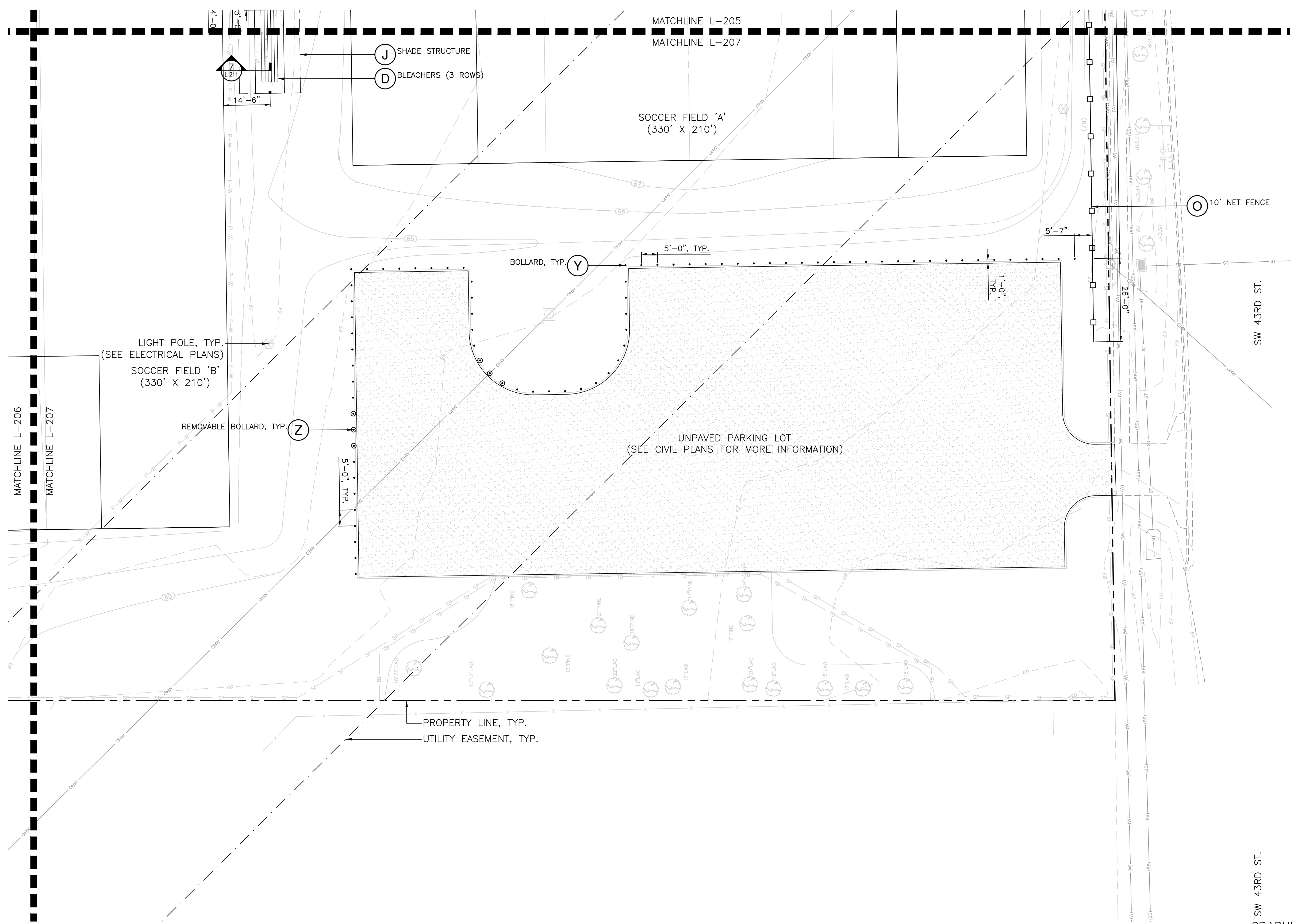
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COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET	CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSP SHEET TITLE: LAYOUT & HARDSCAPE PLAN
DESIGNER: JMS CHECKER: JMS QUALITY CONTROL: CT PROJECT NUMBER: 21-0219	SHEET NO.: L-207

FINISH SCHEDULE			FINISH SCHEDULE		
SYM	ITEM	SPECIFICATIONS	SYM	ITEM	SPECIFICATIONS
(A)	TABLE	TYPE: 8' PICNIC TABLE (SURFACE MOUNTED) FINISH: THERMOPLASTIC COLOR: 50% BLUE, 50% GREEN (SEE PLANS FOR LOCATIONS) SOURCE: ULTRA PLAY #238-V8 (STANDARD TABLE), 238H-V8 (ADA TABLE) 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, OR APPROVED EQUAL
(B)	BENCH	TYPE: 6' BENCH WITH PARK NAME ENMESHED IN METAL BACK (SURFACE MOUNTED) FINISH: THERMOPLASTIC COLOR: 50% GREEN, 50% BLUE (SEE PLANS FOR LOCATIONS) SOURCE: ULTRA PLAY #940-P6-BB OR APPROVED EQUAL	(R)	VOLLEYBALL POSTS	TYPE: POP-BAZOOKA E-Z ADJUST PROFESSIONAL OUTDOOR POSTS FINISH: ANODIZED ALUMINUM COLOR: N/A SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/POP-BAZOOKA-E-Z-ADJUST-PROFESSIONAL-OUTDOOR-POLES/ OR APPROVED EQUAL
(C)	PLAYER BENCH	TYPE: 8' ALUMINUM BENCH (BACKLESS) (SURFACE MOUNTED) FINISH: ALUMINUM COLOR: N/A SOURCE: BELSON #ABS8NB-S OR APPROVED EQUAL	(S)	VOLLEYBALL EDGING	TYPE: FLEXEDGE BEACH VOLLEYBALL RUBBER BORDER FINISH: UV TOP COAT COLOR: BLACK SOURCE: SPORTSEGE, 704-682-9843, SPORTSEGE.COM, OR APPROVED EQUAL
(D)	BLEACHERS	TYPE: 7.5' ALUMINUM BLEACHERS (3 ROWS) (SURFACE MOUNTED) FINISH: ALUMINUM COLOR: N/A SOURCE: KAY PARK-REC CORP #BLA3A7.5 OR APPROVED EQUAL	(T)	VOLLEYBALL MARKERS	TYPE: 2" PRO COURT ADJUSTABLE BOUNDARY LINES FINISH: N/A COLOR: BLUE SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/2-INCH-PRO-ADJUSTABLE-BOUNDARY-LINES/ OR APPROVED EQUAL
(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	(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, OR APPROVED EQUAL
(F)	TRASH RECEPTACLE	TYPE: COMBINATION TRASH RECEPTACLE AND RECYCLING BIN (SURFACE MOUNTED) FINISH: BLACK HDPE FRAME WITH GREEN HDPE PANELING COLOR: BLACK AND GREEN SOURCE: ARETE INDUSTRIES #CUST-WE3C-47-D OR APPROVED EQUAL	(V)	COURT SURFACING	TYPE: PLEXIPAVE (STANDARD) FINISH: N/A COLOR: PROVIDE SAMPLES TO OWNER FOR SELECTION SOURCE: CALIFORNIA SPORTS SURFACES, 978-623-9980, OR APPROVED EQUAL
(G)	DOGIPOT	TYPE: DOGIPOT BAG DISPENSER, SIGN, AND POLE FINISH: ALUMINUM COLOR: FOREST GREEN SOURCE: DOGIPOT #1011-MINI OR APPROVED EQUAL	(W)	6' FENCE	TYPE: 6' HT. CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL
(H)	WATER FOUNTAIN	TYPE: DRINKING FOUNTAIN & HOSE BIBB W/ LOCKING COVER WITH PET OPTION AS NOTED (SURFACE MOUNTED) FINISH: POWDER COATED COLOR: GREEN SOURCE: MDF, INC. #440 SMSS DRINKING FOUNTAIN OR APPROVED EQUAL	(X)	GATE (6' HT.)	TYPE: 6' HT. CHAIN LINK MESH (6' WIDE) FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL
(I)	DOG WASHING STATION	TYPE: DOG WASHING STATION (SURFACE MOUNTED) FINISH: STAINLESS STEEL COLOR: N/A SOURCE: PET AND PLAYGROUND PRODUCTS, 866-398-3992, OR APPROVED EQUAL	(Y)	BOLLARD	TYPE: 4" BOLLARD FINISH: POWDER COATED STEEL COLOR: YELLOW SOURCE: BOLLARD SOLUTIONS, 864-626-3311 OR APPROVED EQUAL
(J)	SHADE STRUCTURE	TYPE: T-STYLE CANTILEVER SHADE (19' X 30') FINISH: POWDER COATED STEEL COLOR: WHITE (STEEL FRAME), DESERT SAND (CANVAS SHADE) SOURCE: CREATIVE SHADE SOLUTIONS. T-STYLE CANTILEVER OR APPROVED EQUAL	(Z)	REMOVABLE BOLLARD	TYPE: 4" REMOVABLE BOLLARD FINISH: POWDER COATED STEEL COLOR: YELLOW SOURCE: BOLLARD SOLUTIONS, 864-626-3311 OR APPROVED EQUAL
(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 #TS-G2036-04 OR APPROVED EQUAL	(AA)	STORAGE BIN	TYPE: 4' x 2' LOCKABLE HORIZONTAL STORAGE SHED FINISH: N/A COLOR: GRAY SOURCE: CRAFTSMAN MODEL #CMXRSSC2550 OR APPROVED EQUAL
(L)	4' FENCE	TYPE: 4' HT. CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL	(BB)	PICKLEBALL NETS	TYPE: PORTABLE PICKLEBALL NET SYSTEM (OVAL DESIGN) FINISH: N/A COLOR: BLACK NET SOURCE: PICKLEBALL CENTRAL #OOPKNOVL OR APPROVED EQUAL
(M)	GATE (4' HT.)	TYPE: 4' HT. CHAIN LINK MESH (4' WIDE) FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM, OR APPROVED EQUAL	(CC)	PADDLE RACK	TYPE: PVC PADDLE RACK (20 PADDLES - WITH J HOOKS) FINISH: N/A COLOR: WHITE SOURCE: NEXTUP PICKLEBALL PRODUCTS #2046R-PVC OR APPROVED EQUAL
(N)	DOUBLE GATE (4' HT.)	TYPE: 4' HT., DOUBLE GATE (10' WIDE) CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM, OR APPROVED EQUAL	(DD)	SAND RAKE	TYPE: VOLLEYBALL SAND RAKE - 48" FINISH: N/A COLOR: N/A SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/ACCESSORIES/SAND-RAKES/ OR APPROVED EQUAL
(O)	10' NET FENCE	TYPE: 10' HT. BARRIER NET, 1.75" SQUARE KNOTTED NETTING WITH STEEL POLES FINISH: POWDER COATED GALVANIZED STEEL COLOR: BLACK SOURCE: CUSTOM NETTING, 404-869-8623 OR APPROVED EQUAL	(EE)	VOLLEYBALL NETS	TYPE: ML4: 4" PRO BEACH NET (KEVLAR CORD NETS) FINISH: N/A COLOR: BLACK SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/ML4-4-PRO-BEACH-NET/ OR APPROVED EQUAL
(P)	CONCRETE	TYPE: CONCRETE FINISH: REFER TO CIVIL PLANS FOR MORE INFORMATION COLOR: N/A SOURCE: N/A	(FF)	ANTENNA SET	TYPE: VELCRO 2 PIECE VOLLEYBALL ANTENNA SET FINISH: N/A COLOR: BLACK SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/COLORED-ULTRA-VELCRO-2-PIECE-VOLLEYBALL-ANTENNA-SET/ OR APPROVED EQUAL

NOTE: CONTRACTOR SHALL SUBMIT SAMPLES AND/OR SHOP DRAWINGS FOR ALL FINISH SCHEDULE ITEMS.



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SCALE: N/A
REVISIONS: 0
DATE: 10/16/2022
BY: JMS
CHECKED: JMS
APPROVED: JMS

CONSTRUCTION REVISIONS

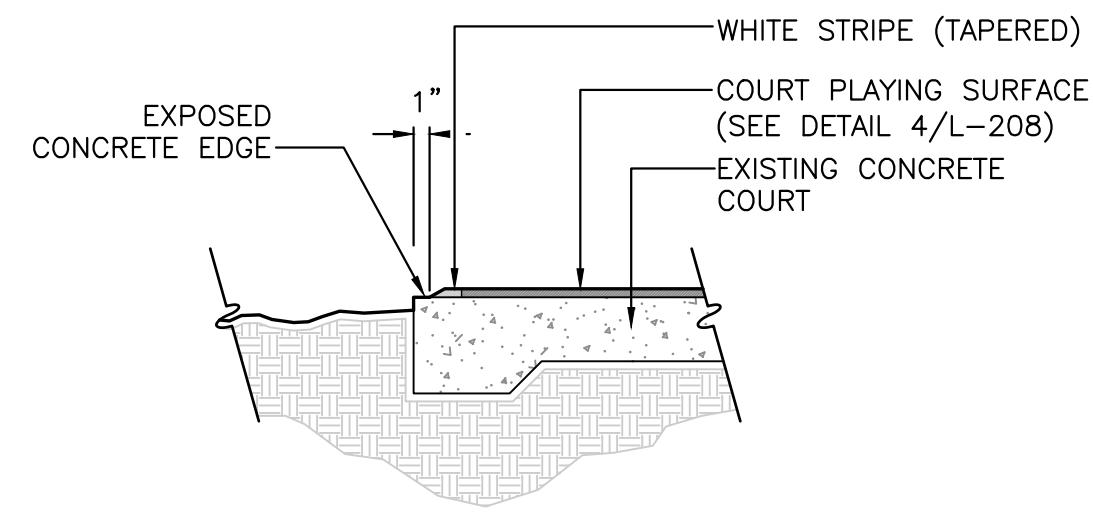
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8/15/2022 - BID DOCUMENTS
10/16/2022 - BID SET

CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: FINISH SCHEDULE

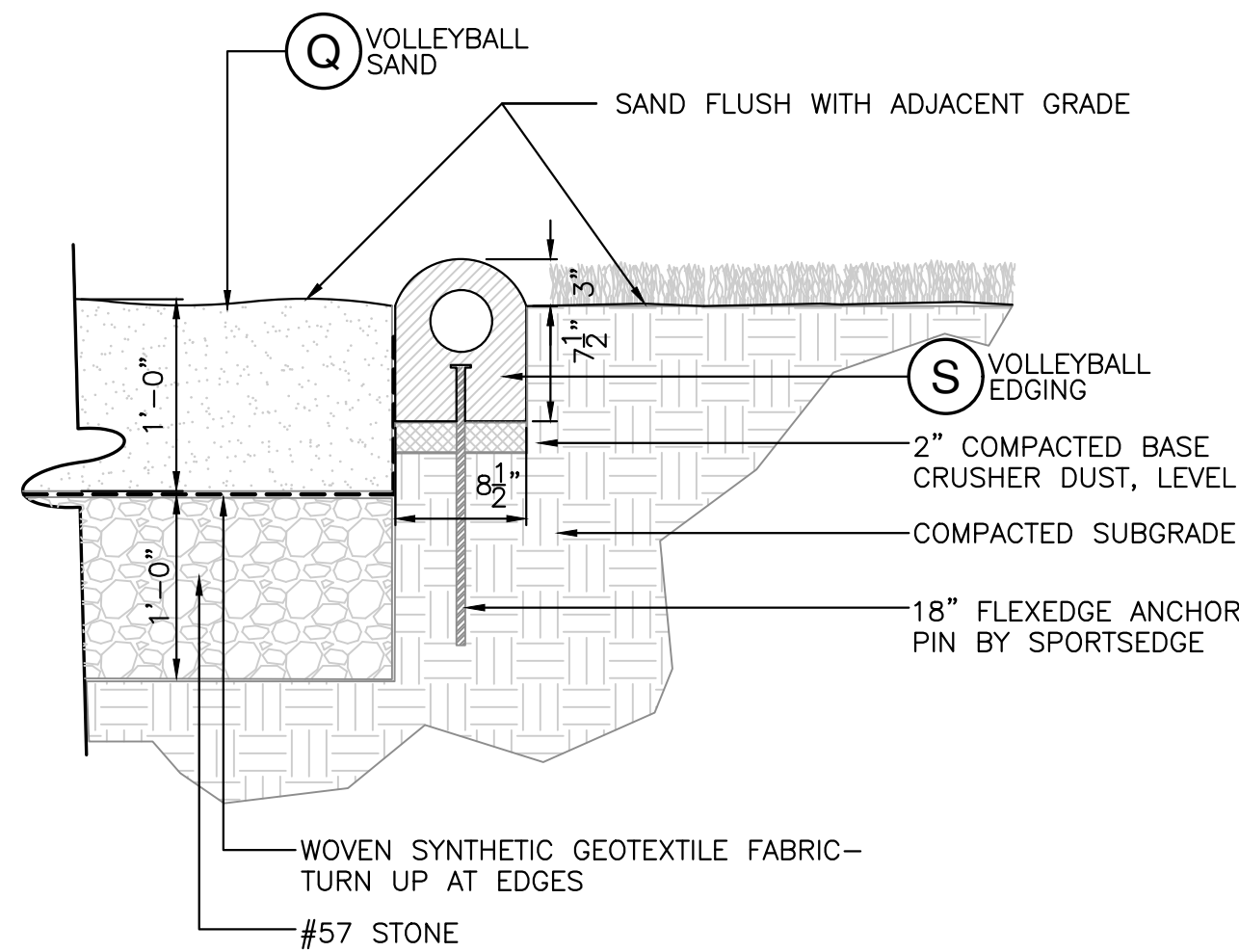
DESIGNER: JMS
CHECKER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

SHEET NO.: L-208

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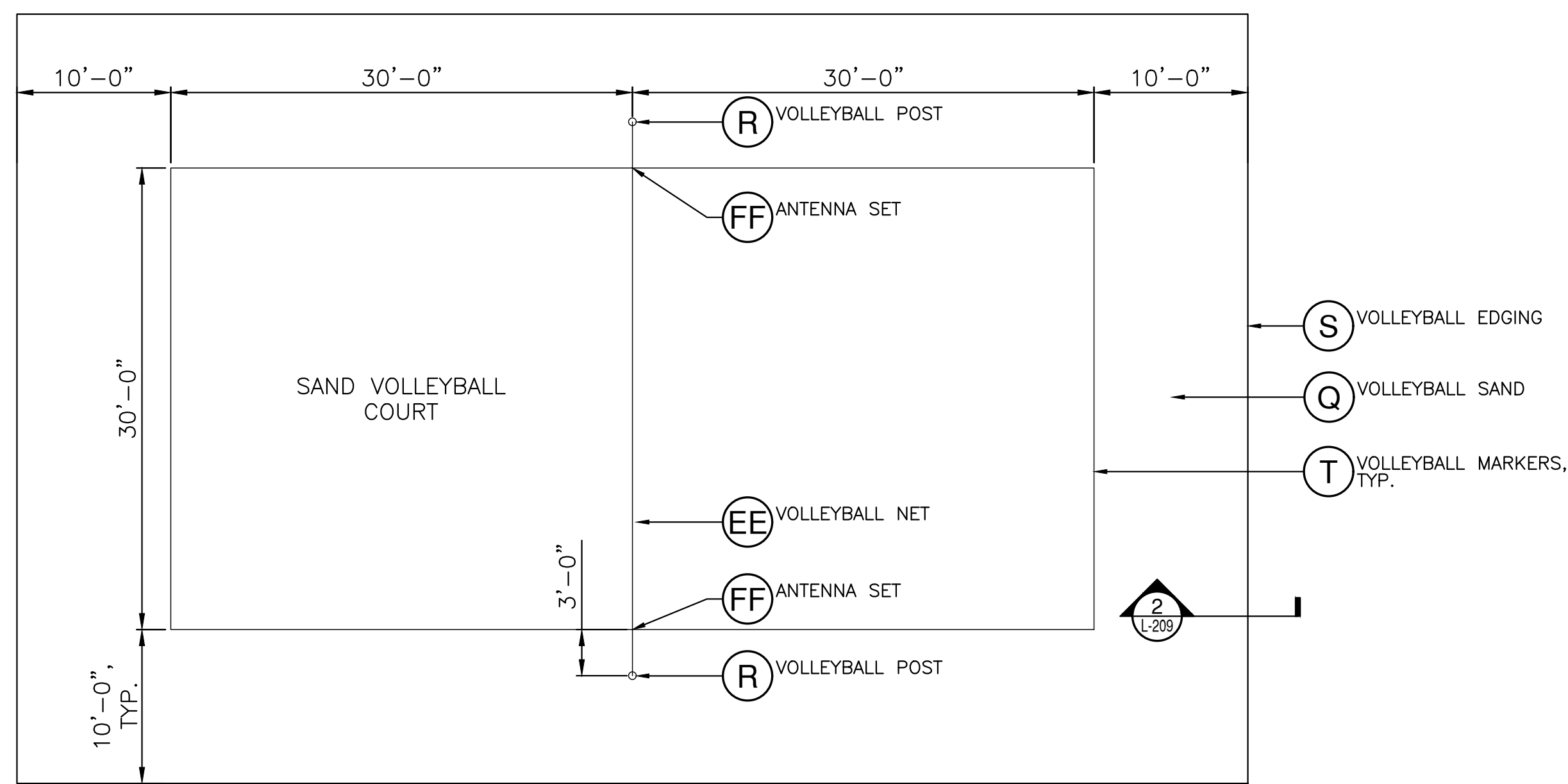


1 SPORTS COURT DETAIL
SCALE: 1" = 1'-0"

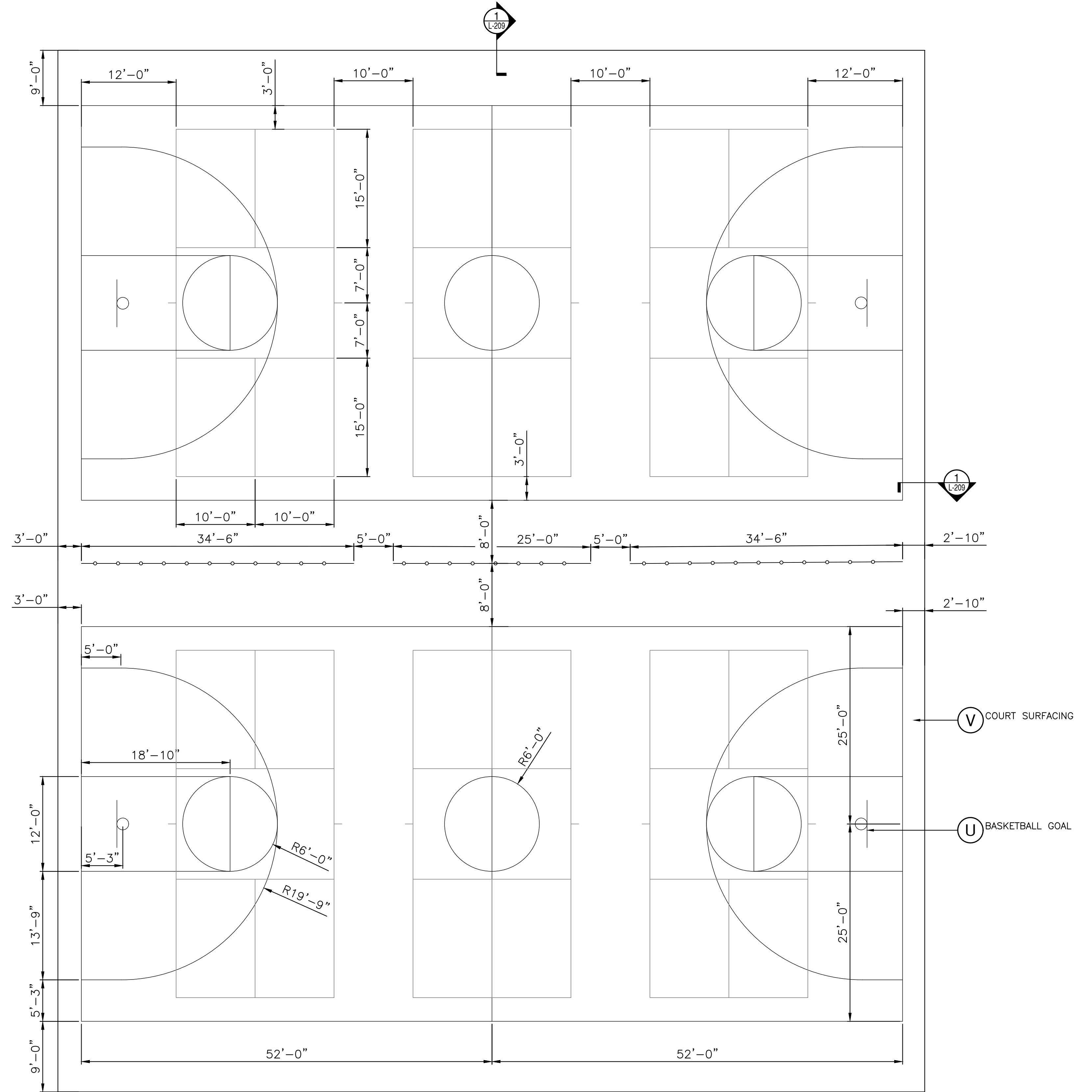


2 SAND VOLLEYBALL DETAIL
SCALE: 1" = 1'-0"

NOTE:
INSTALL VOLLEYBALL EDGING PER MANUFACTURER'S SPECIFICATIONS. SUBMIT SHOP DRAWING FOR OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO INSTALLATION.
INSTALL IN ALL LOCATIONS OF SAND ADJACENT TO LANDSCAPE. DO NOT INSTALL ADJACENT TO PAVING OR WALLS.



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

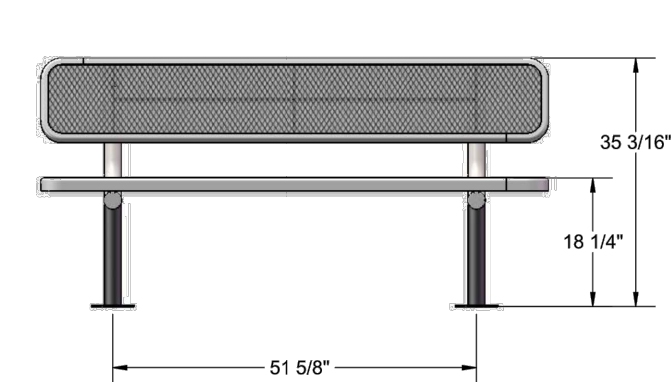
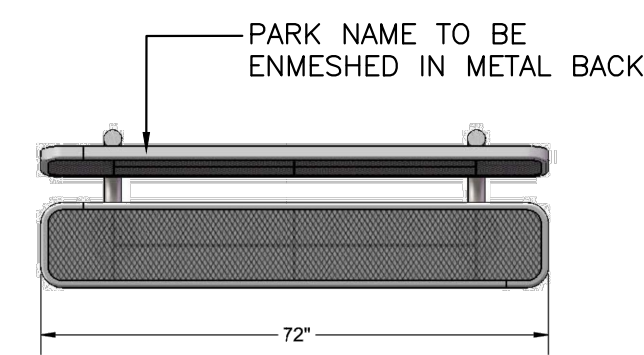


NOTE:
ITEMS (6) BB-PICKLEBALL NETS AND (2) CC-PADDLE RACKS TO BE STORED IN THE STORAGE BIN.

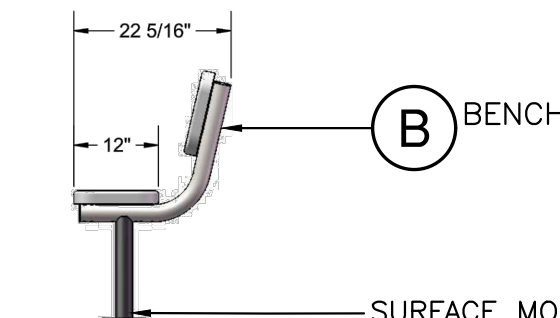
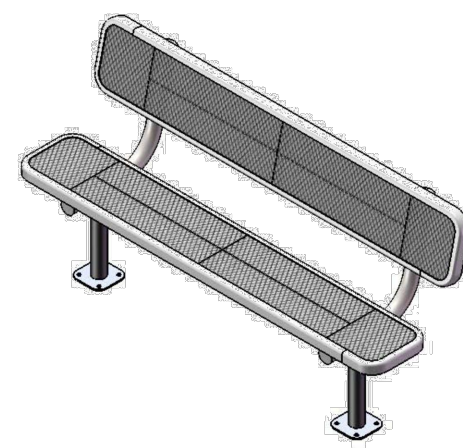
4 BASKETBALL & PICKLEBALL LAYOUT PLAN
SCALE: 1/8" = 1'-0"

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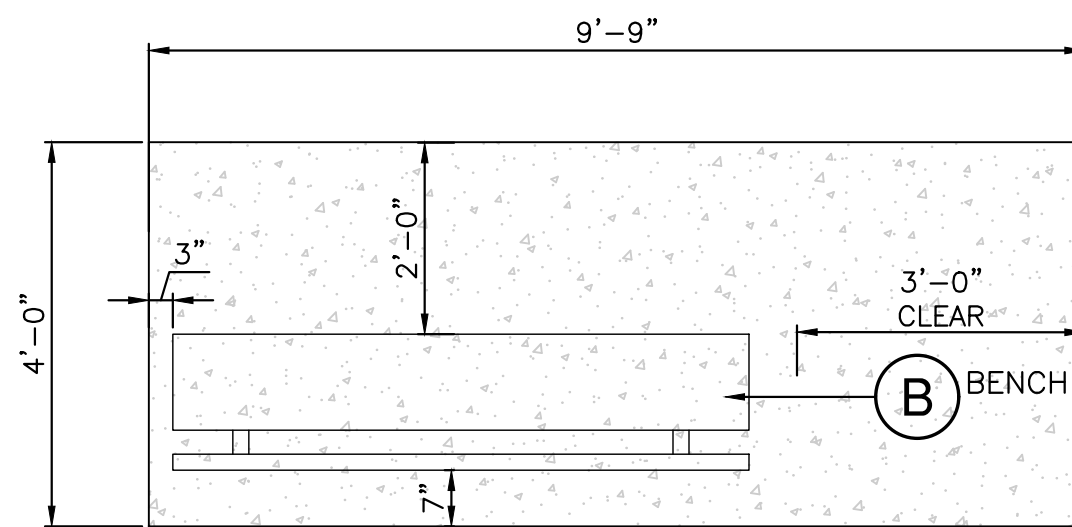
11801 Research Drive Alachua, Florida 32615 (352) 351-1976 www.chw-inc.com est. 1988 FLORIDA LA0001683	
 Professional Consultants	
SCALE: N/A REVIEW DATE: 8/15/2022 BASED ON: ORIGINAL DRAWING 0 MAY BE USED FOR THIS SHEET, ADJUST SCALES ACCORDINGLY.	CONSTRUCTION/REV REVISIONS:
COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET	CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSP SHEET TITLE: HARDSCAPE DETAILS PROJECT NUMBER: 21-0219
DESIGNER: JMS CHECKER: JMS QUALITY CONTROL: CT	SHEET NO.: 21-0219
SHEET NO.: L-209	



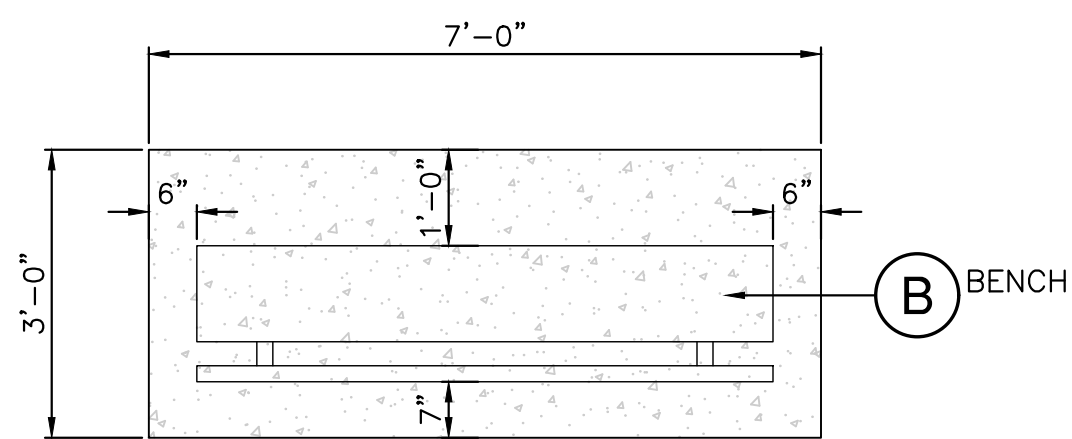
1 BENCH DETAIL
SCALE: N.T.S.



B BENCH
SURFACE MOUNT, INSTALL PER MANUFACTURER'S RECOMMENDATION

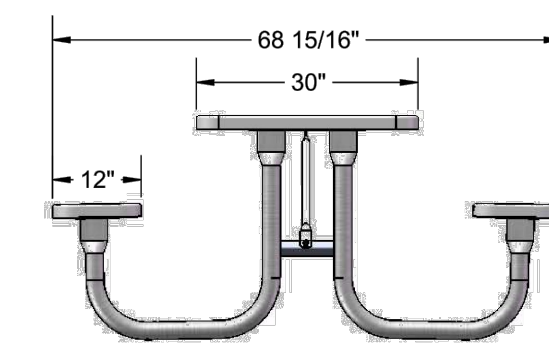


(BENCH WITH ADA SPACE)



(BENCH WITHOUT ADA SPACE)

2 TYPICAL BENCH LAYOUT DETAIL
SCALE: N.T.S.



SURFACE MOUNT TABLES, INSTALL PER MANUFACTURER'S RECOMMENDATION

3 TABLE DETAIL
SCALE: N.T.S.

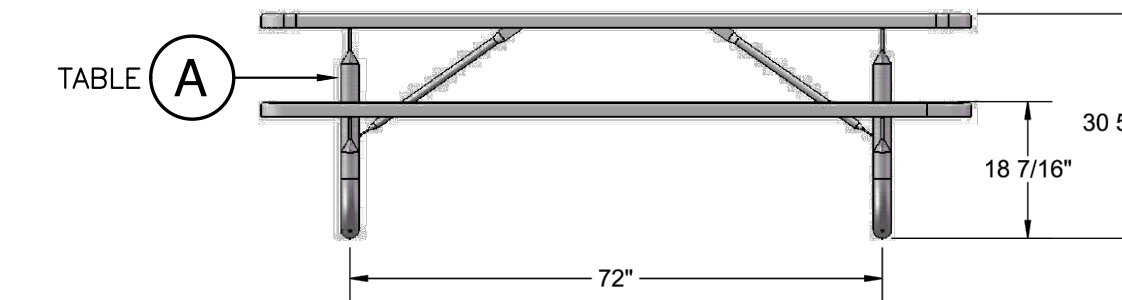
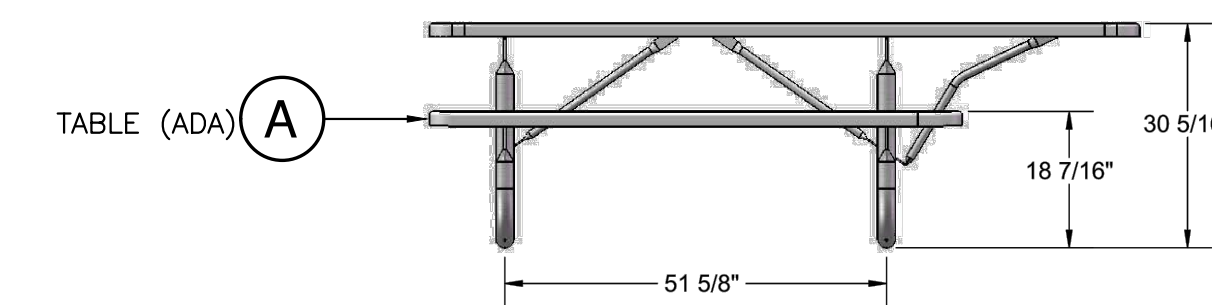
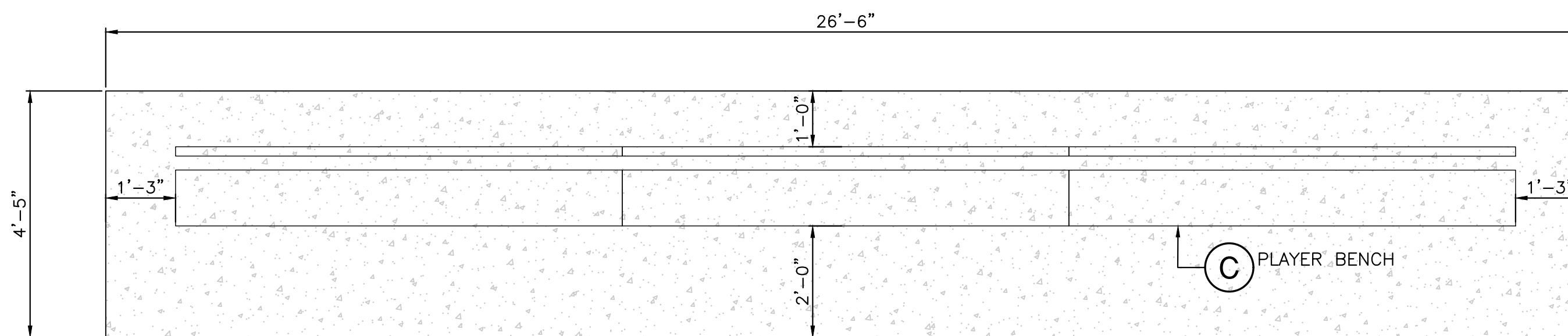


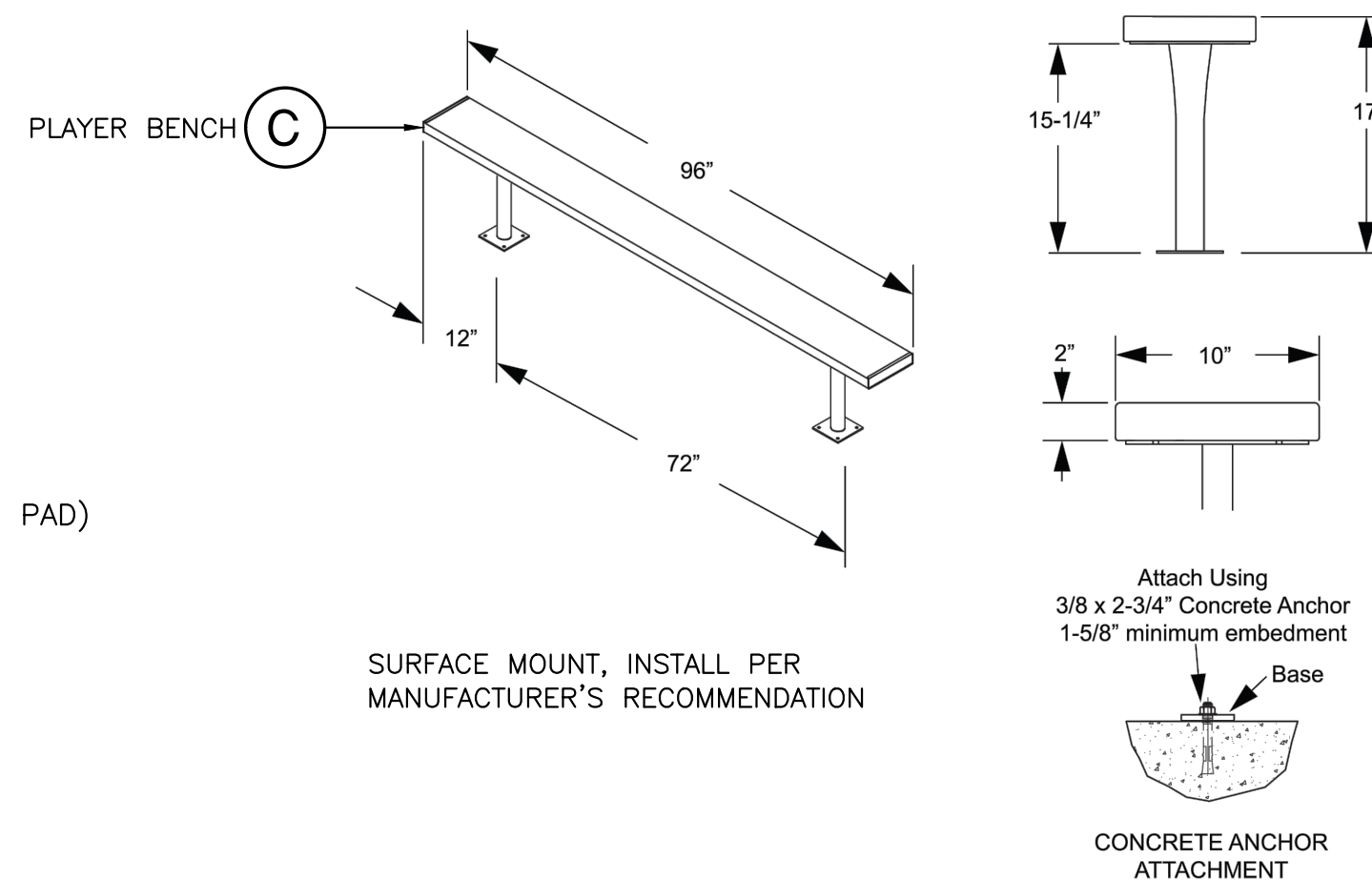
TABLE (ADA) A

TABLE A



A TABLE (CENTERED ON PAD)

4 TYPICAL TABLE LAYOUT DETAIL
SCALE: N.T.S.

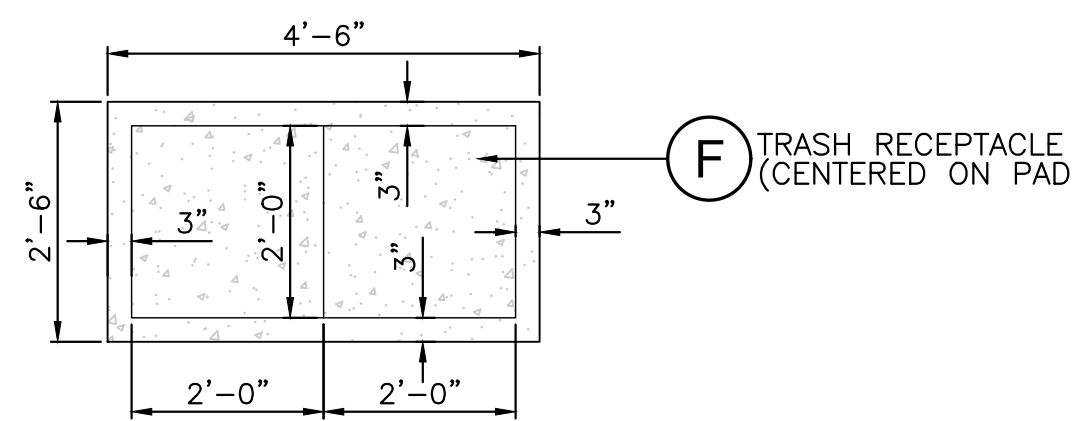


C PLAYER BENCH
SURFACE MOUNT, INSTALL PER MANUFACTURER'S RECOMMENDATION

Attach Using
3/8 x 2-3/4" Concrete Anchor
1-5/8" minimum embedment
Base
CONCRETE ANCHOR ATTACHMENT

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

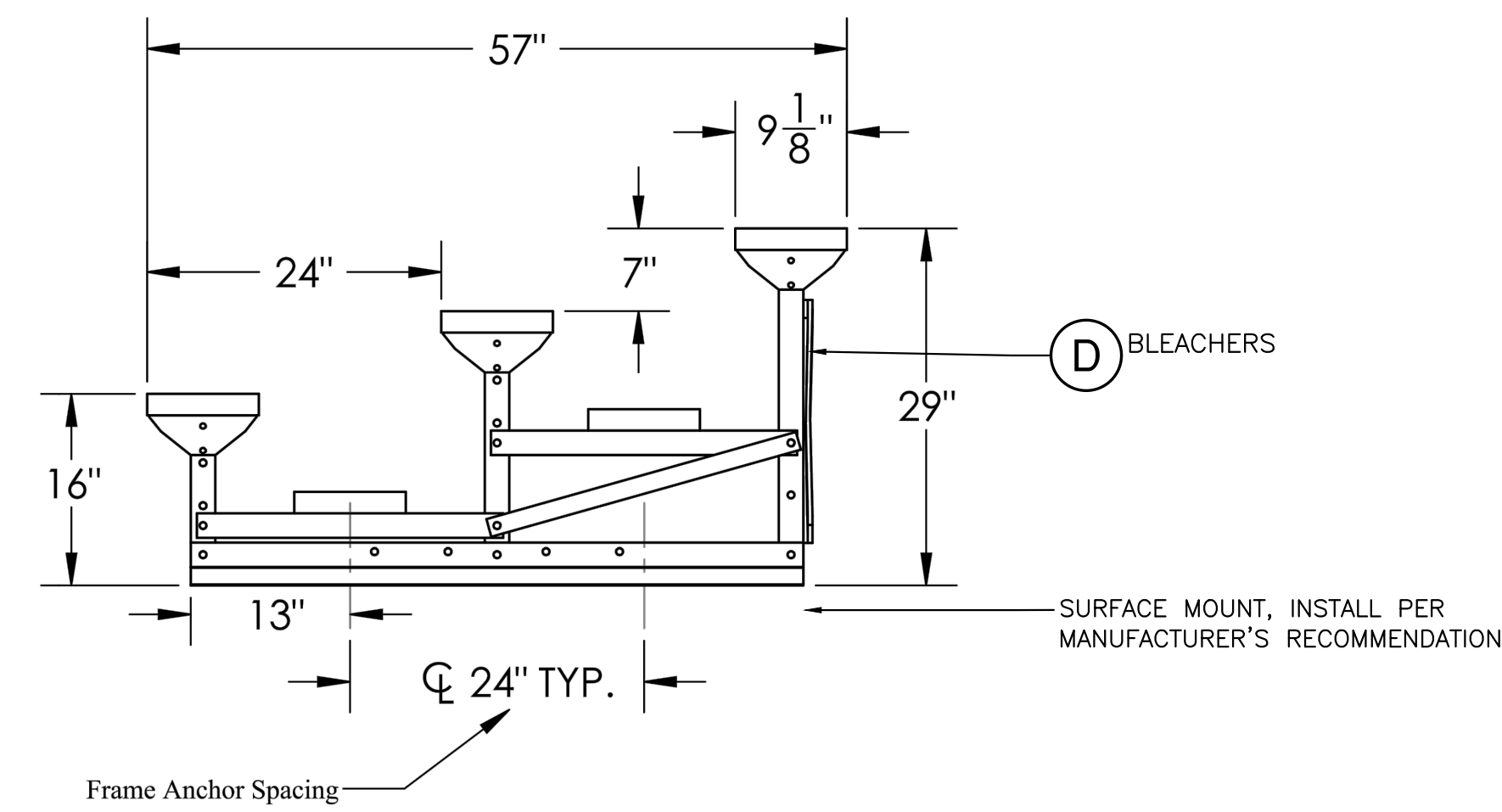
6 TYPICAL PLAYERS BENCH LAYOUT DETAIL
SCALE: N.T.S.



F TRASH RECEPTACLE (CENTERED ON PAD)

SURFACE MOUNT, INSTALL PER MANUFACTURER'S RECOMMENDATION

7 TYPICAL TRASH RECEPTACLE LAYOUT DETAIL
SCALE: N.T.S.



D BLEACHERS

SURFACE MOUNT, INSTALL PER MANUFACTURER'S RECOMMENDATION.

Frame Anchor Spacing

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

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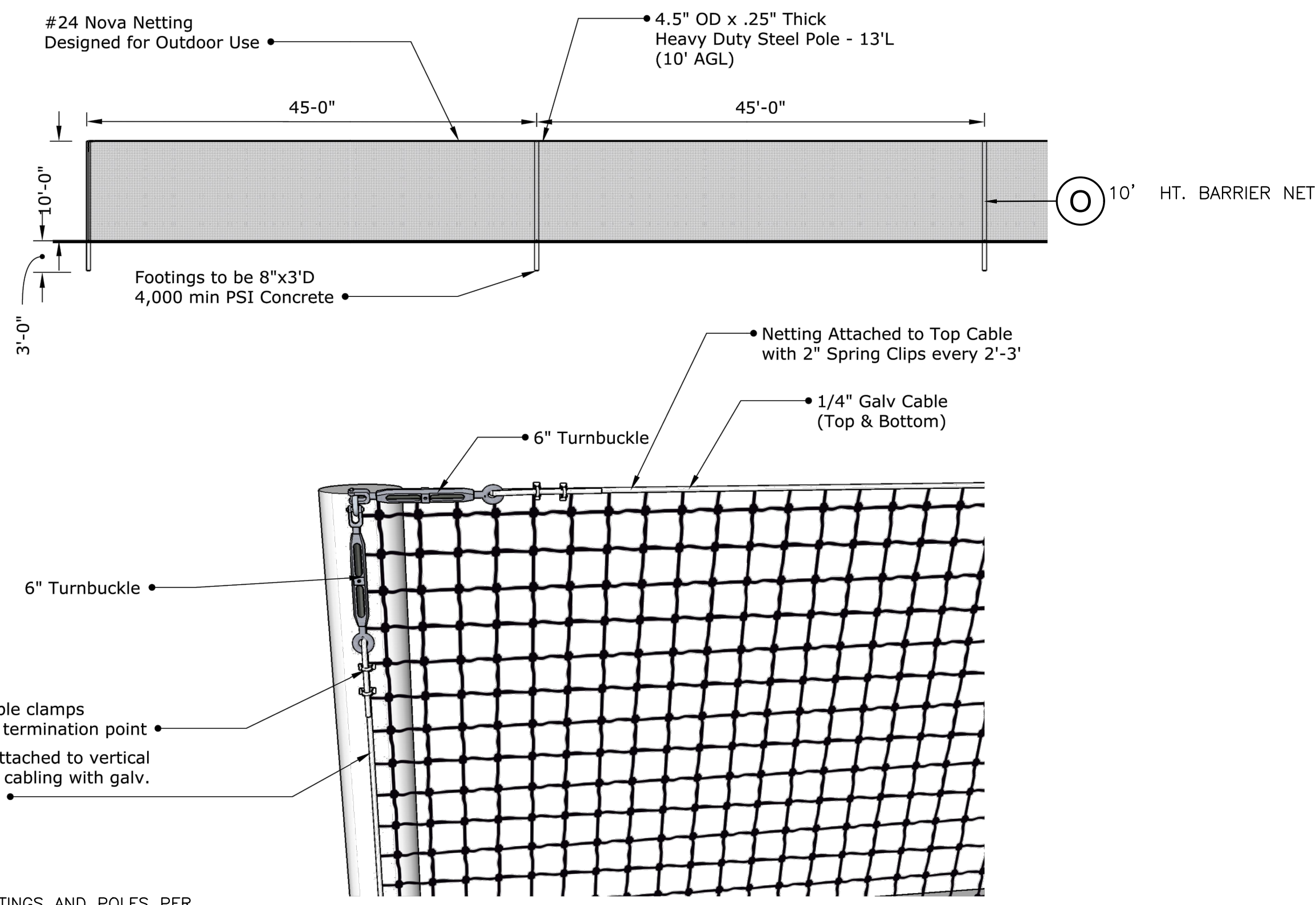
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8/15/2022 - BID DOCUMENTS
10/6/2022 - BID SET

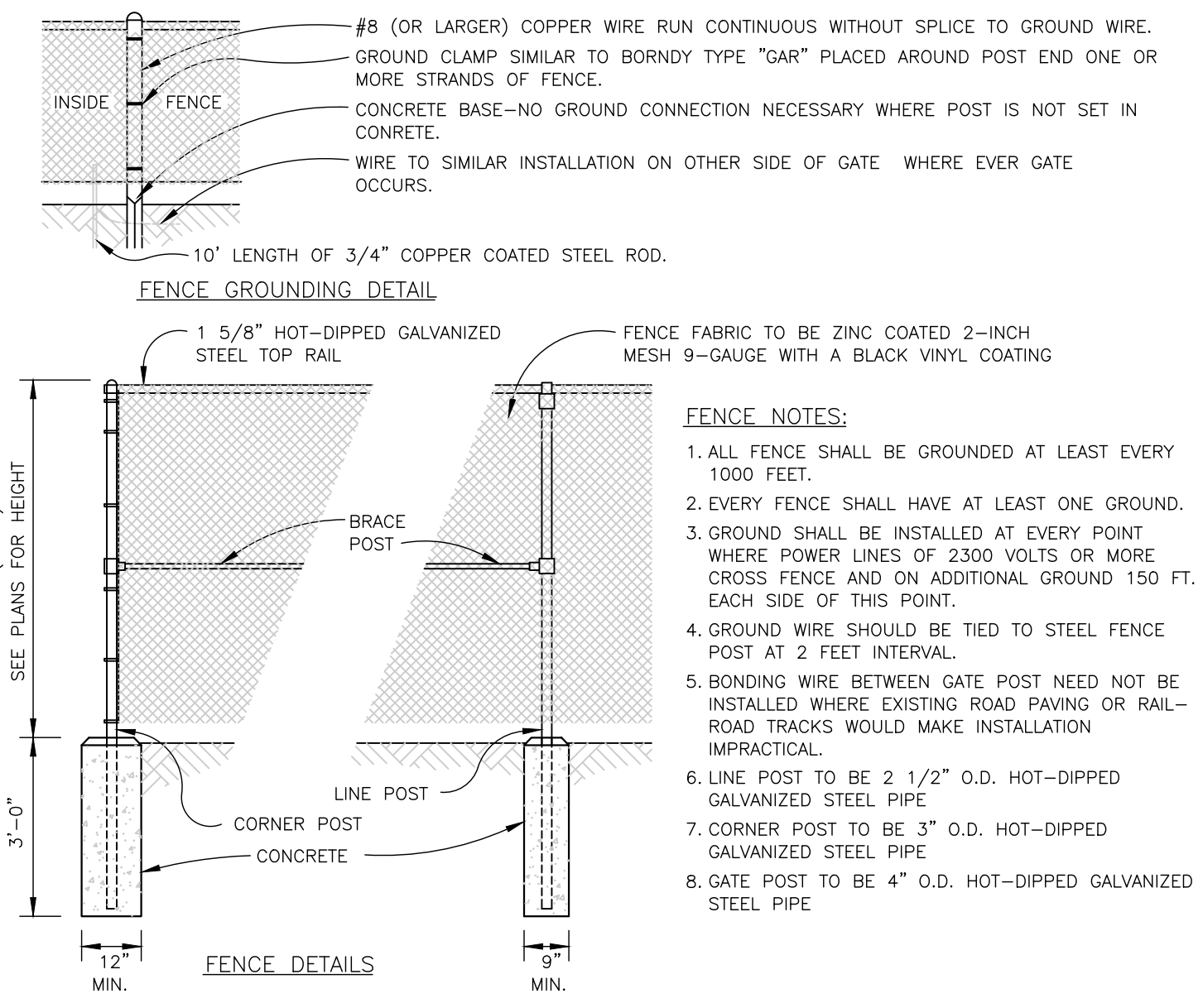
CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: HARDSCAPE DETAILS

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

SHEET NO.: L-210



1 10' HT. BARRIER NET DETAIL
SCALE: N.T.S.



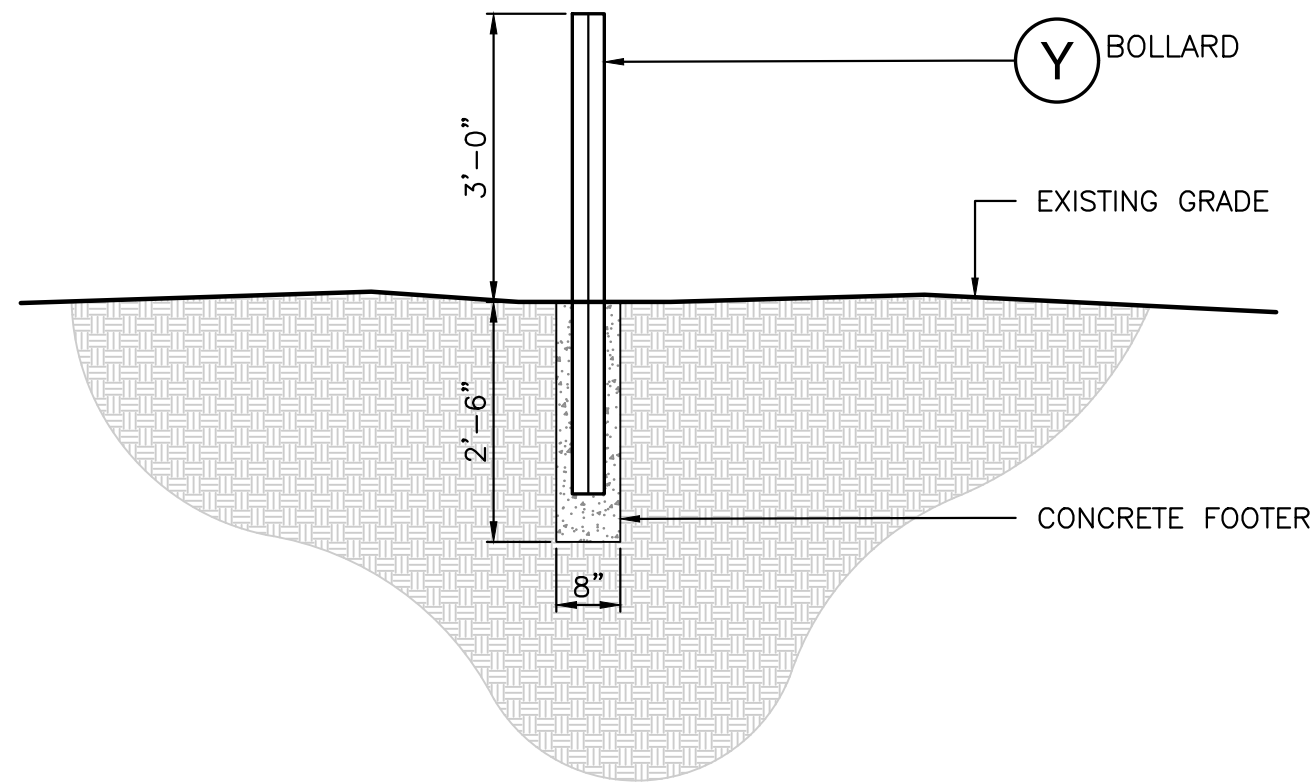
2 CHAIN LINK FENCE DETAIL
SCALE: N.T.S.



SHADE STRUCTURE (19' x 30')

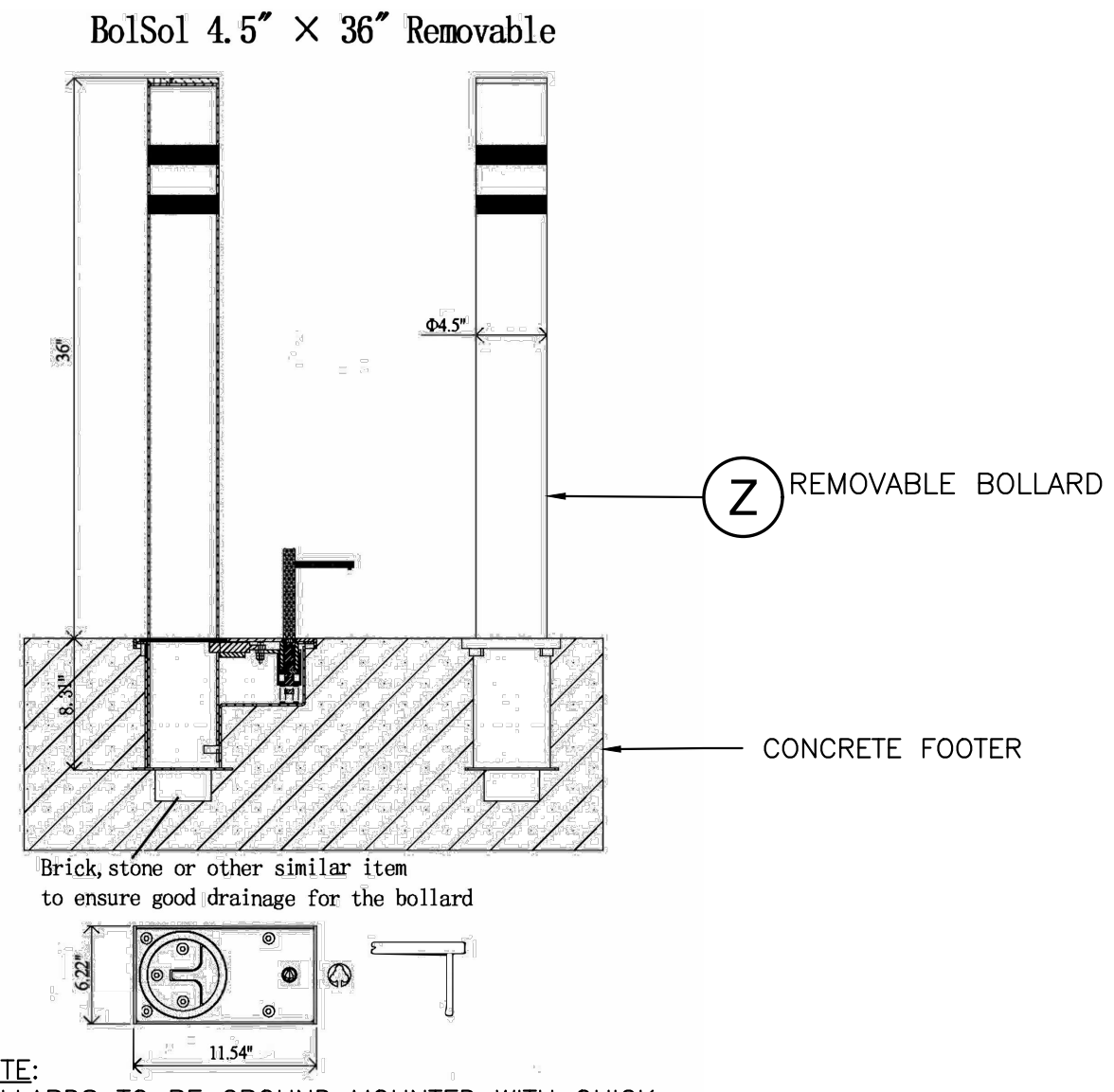
NOTE: INSTALL SHADE STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.

3 SHADE STRUCTURE
SCALE: N.T.S.



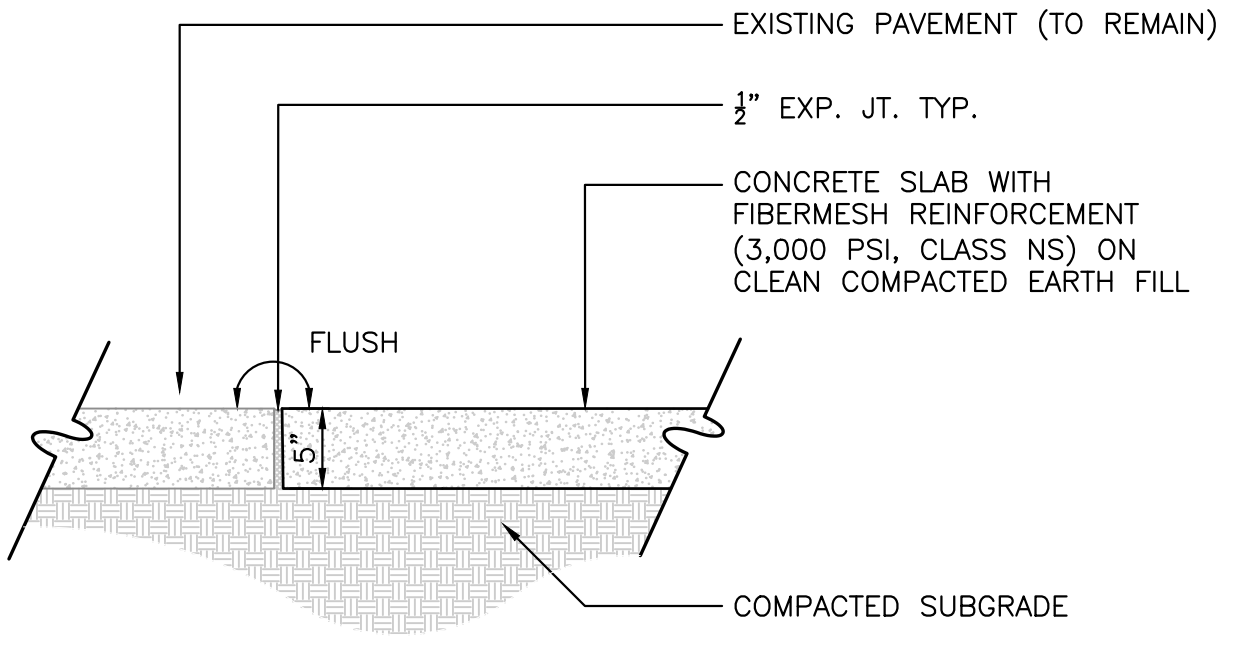
NOTE: BOLLARDS TO BE GROUND MOUNTED. INSTALL BOLLARDS PER MANUFACTURER'S RECOMMENDATIONS.

4 BOLLARD
SCALE: N.T.S.



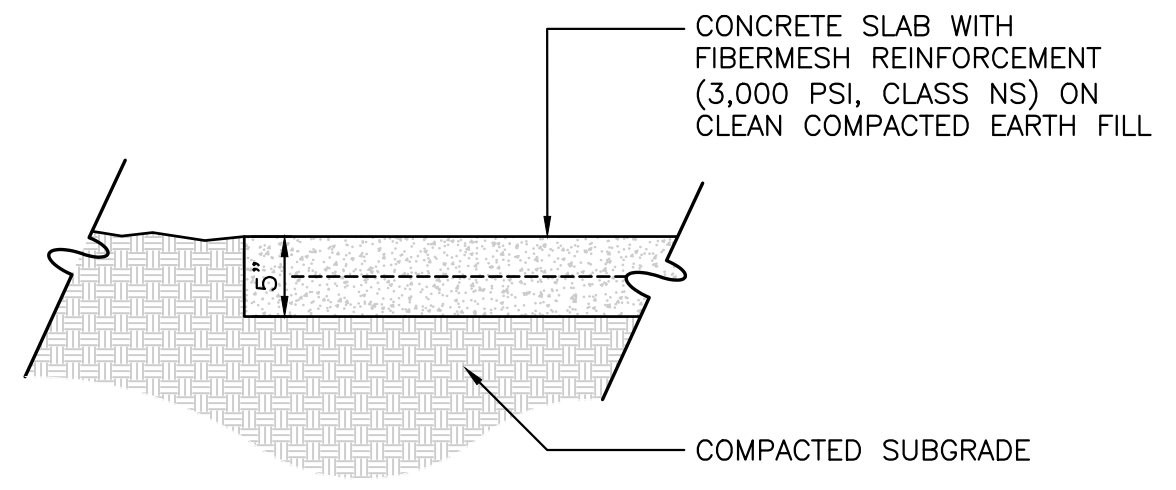
NOTE: BOLLARDS TO BE GROUND MOUNTED WITH QUICK RELEASE MOUNT. INSTALL BOLLARDS PER MANUFACTURER'S RECOMMENDATIONS.

5 REMOVABLE BOLLARD
SCALE: N.T.S.



NOTE:
1. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
2. EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

6 CONCRETE DETAIL 'A'
SCALE: N.T.S.



NOTE:
1. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
2. EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

7 CONCRETE DETAIL 'B'
SCALE: N.T.S.

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10/6/2022 - BID SET

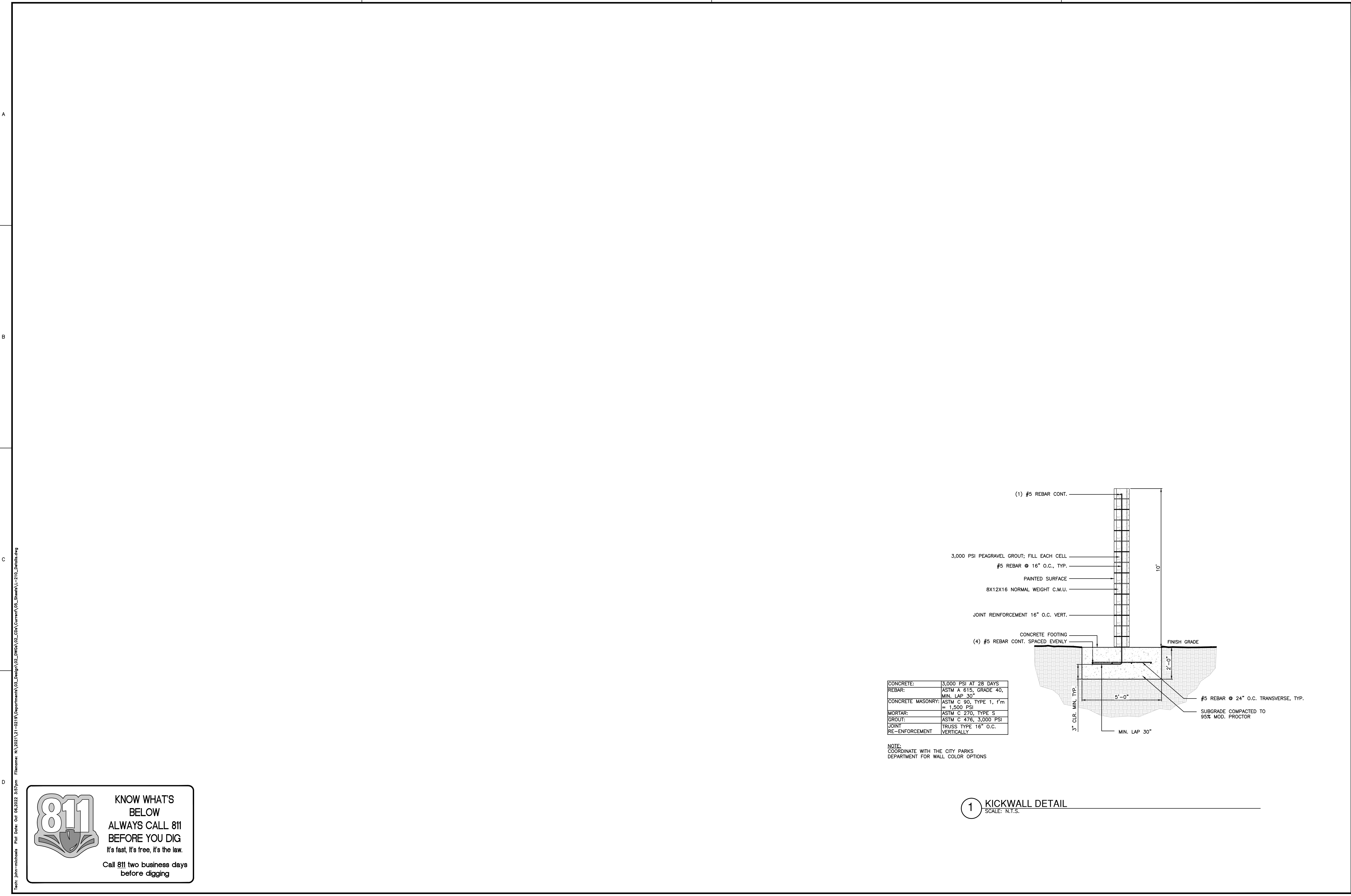
CLIENT: CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP

DESIGNER: JMS
DESIGNER: JMS
QUALITY CONTROL: CT

SHEET NUMBER: 21-0219

SHEET TITLE: HARDSCAPE DETAILS

SHEET NO.: L-211



CONCRETE:	3,000 PSI AT 28 DAYS
REBAR:	ASTM A 615, GRADE 40, MIN. LAP 30"
CONCRETE MASONRY:	ASTM C 90, TYPE 1, 1' m = 1,500 PSI
MORTAR:	ASTM C 270, TYPE S
GROUT:	ASTM C 476, 3,000 PSI
JOINT RE-ENFORCEMENT	TRUSS TYPE 16" O.C. VERTICALLY

NOTE:
COORDINATE WITH THE CITY PARKS
DEPARTMENT FOR WALL COLOR OPTIONS

1 KICKWALL DETAIL
SCALE: N.T.S.

1 2 3 4

A B C D

File Name: N:\2021\21-0219\Department\02_DWG\02_CDA\Current\02_Sheet\1-2102-Detail.dwg
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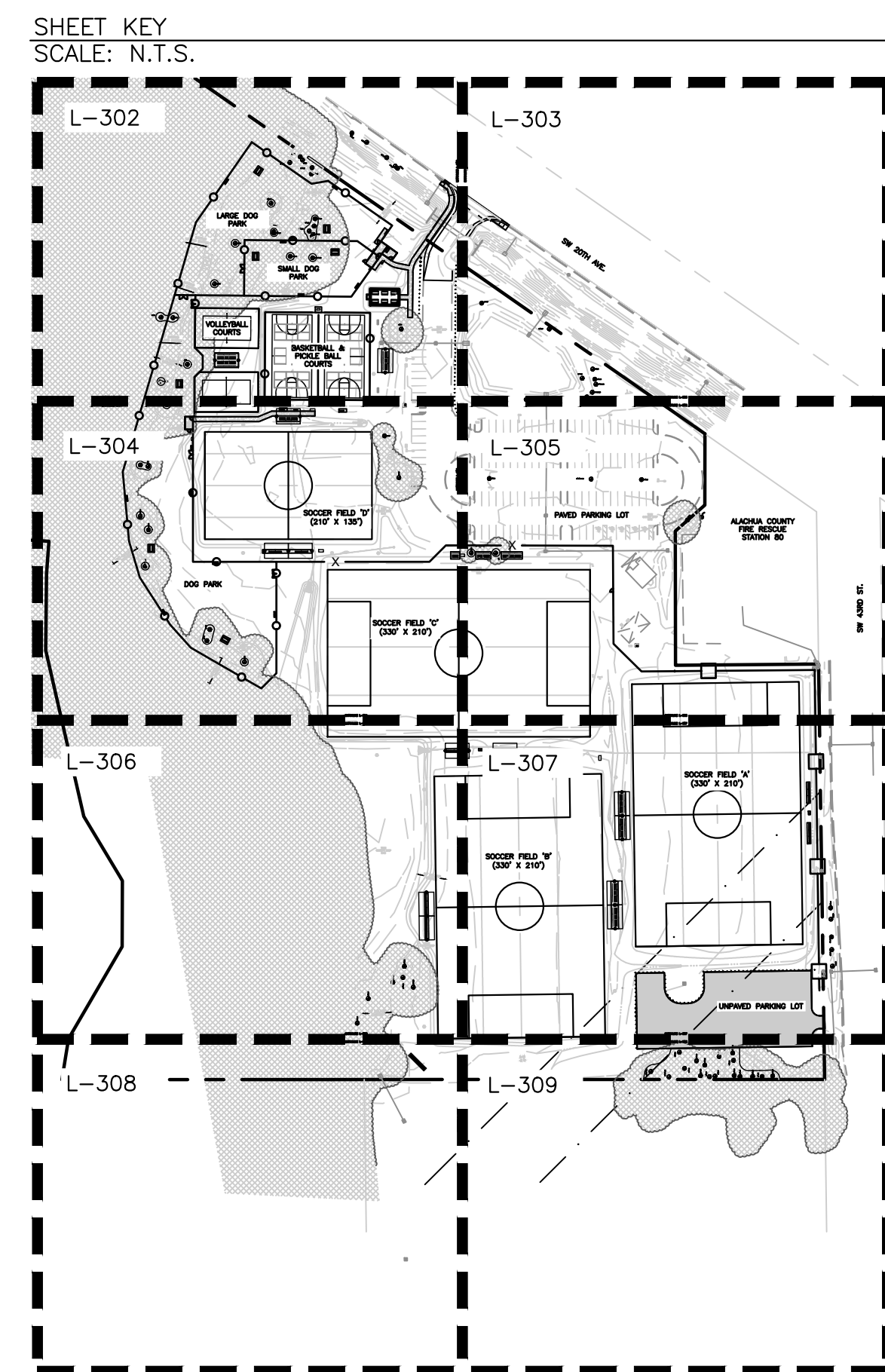
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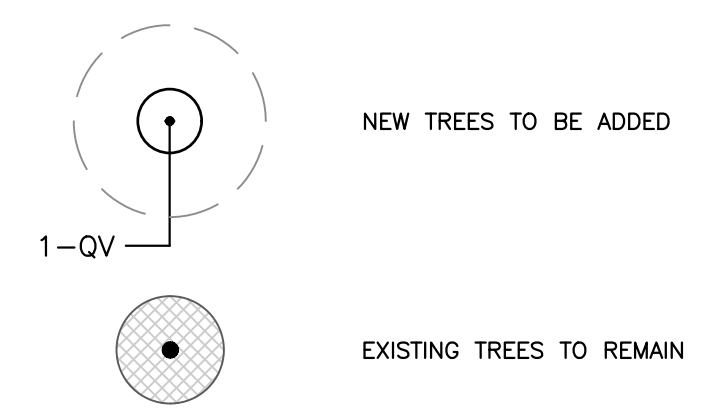
CLIENT: CITY OF GAINESVILLE
 PROJECT: FOREST PARK WSP
 SHEET TITLE: HARDSCAPE DETAILS

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

SHEET NO.: L-212



LEGEND



GENERAL NOTES
ALL ASPHALT, LIMESTONE, 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.

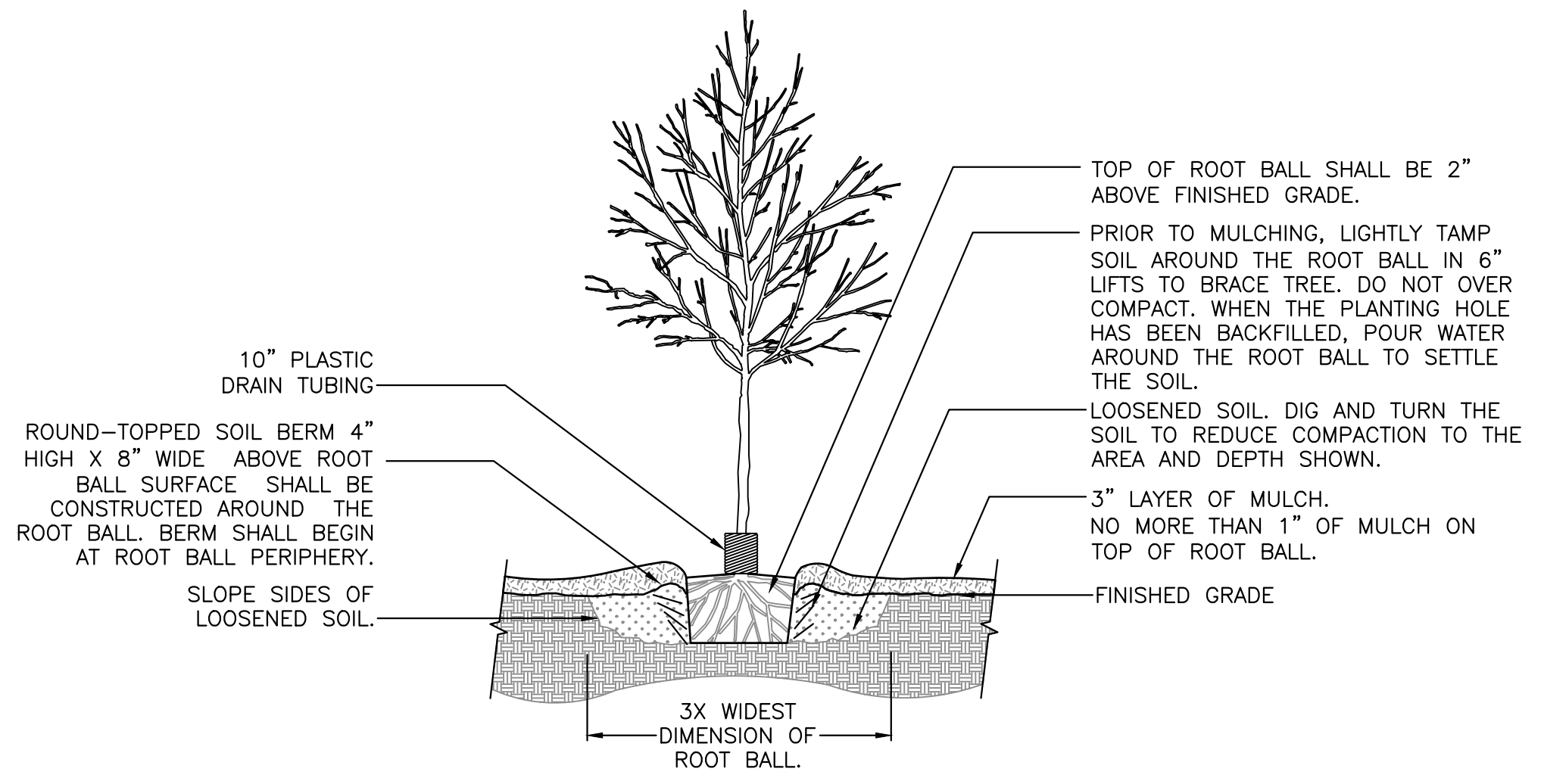
IRRIGATION
LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM. BUBBLERS SHALL BE INSTALLED BY EACH TREE AS PART OF THE IRRIGATION SYSTEM.

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 BOK OF THE LANDSCAPED AREA. FOR MORE INFORMATION, CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AT 352-264-6800.

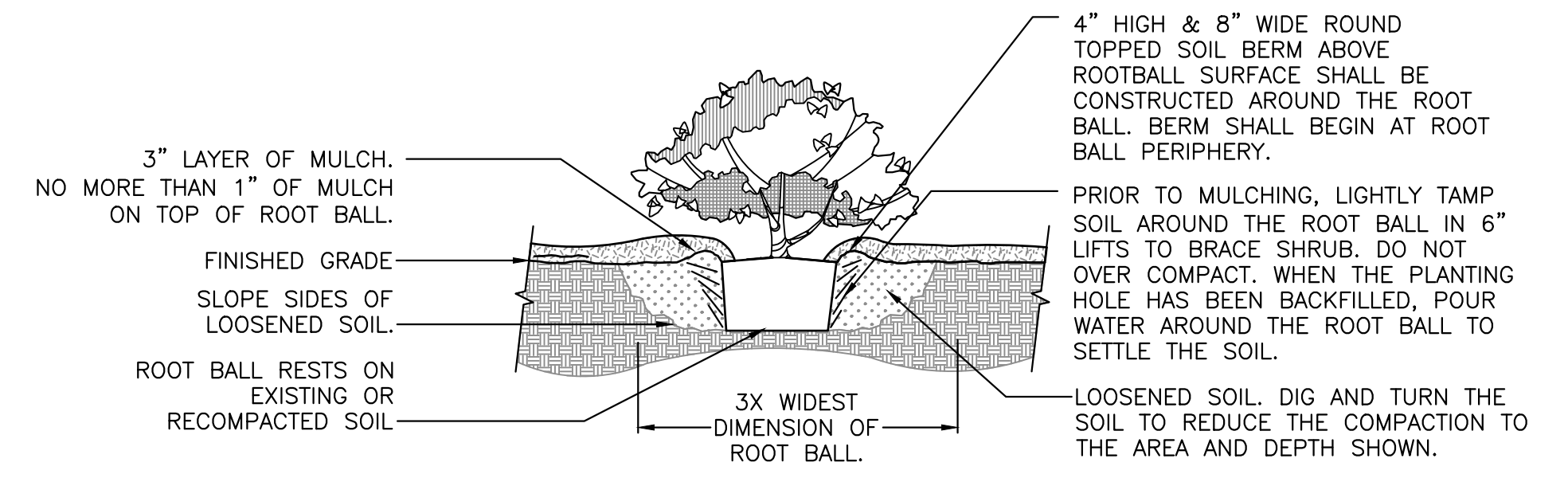
T.M.P.A.
SITE IS LOCATED IN ZONE M OF THE TRANSPORTATION MOBILITY PROGRAM AREA.

PLANT SCHEDULE

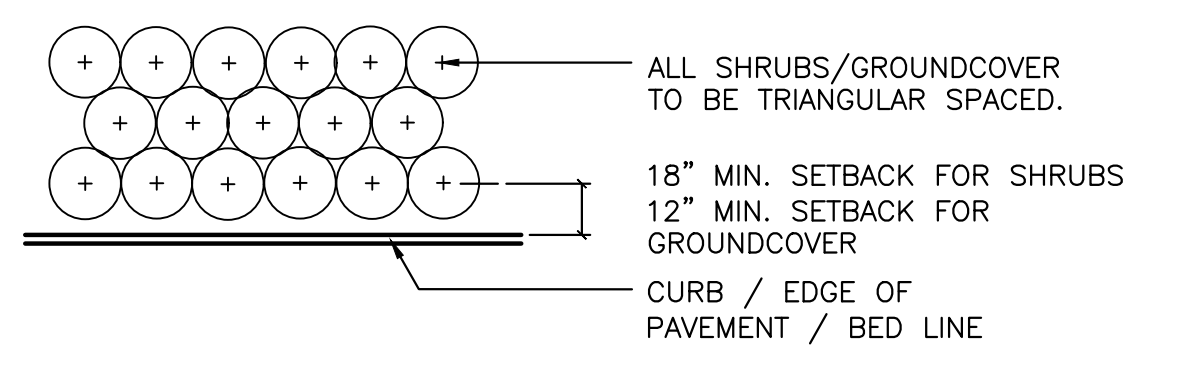
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
PE	3	PINUS ELLIOTTII "DENSE"	SLASH PINE	30 GAL, 12" HT, 42" SPR, 2" CAL
QS	3	QUERCUS SHUMARDII	SHUMARD RED OAK	30 GAL, 12" HT, 42" SPR, 2" CAL
QV	10	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	30 GAL, 12" HT, 54" SPR, 2" CAL
UA	3	ULMUS ALATA	WINGED ELM	30 GAL, 10' HT,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



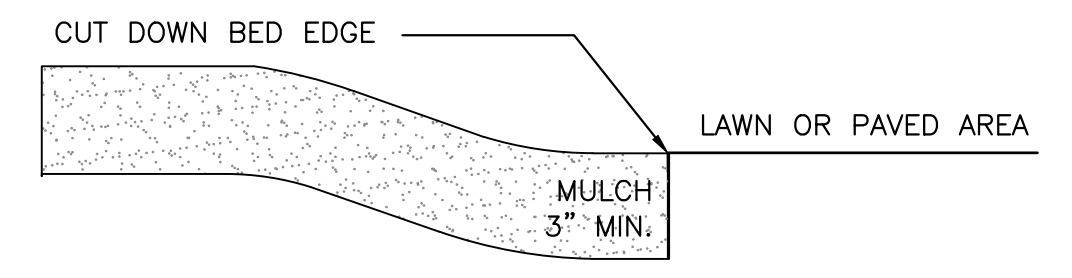
1 TREE PLANTING DETAIL
SCALE: N.T.S.



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



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



3 MULCH DETAIL
SCALE: N.T.S.

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SCALE: N/A
REVISED SCALE BASED ON ORIGINAL DRAWING
0 1 2 3 4 5 6 7 8 9 10
1" = 10'-0"
THIS SHEET, ADJUST SCALES ACCORDINGLY.

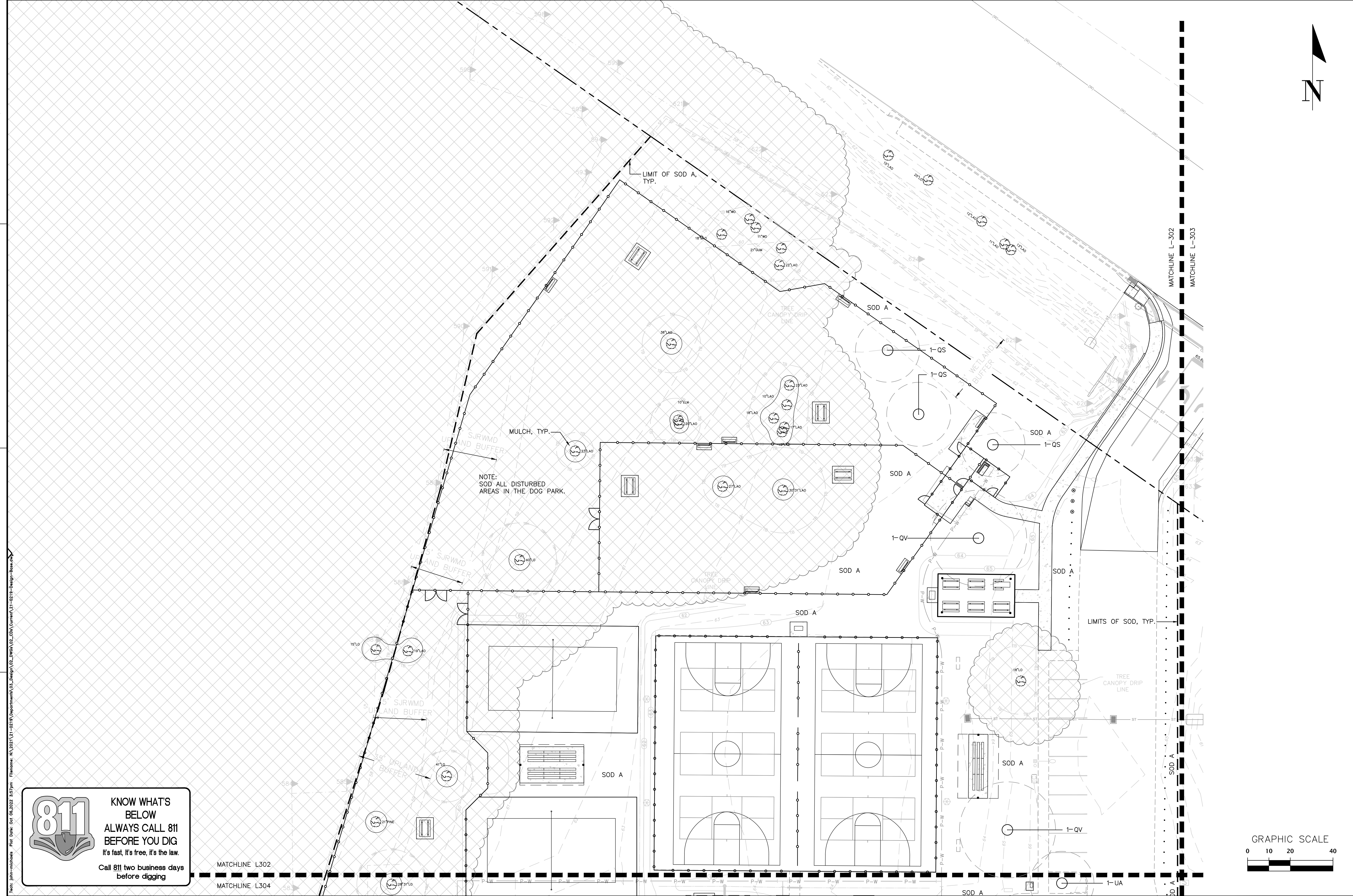
CONSTRUCTION/REV. REVISIONS

DATE: 3/21/2022 - 100% CDS FOR REVIEW
6/15/2022 - BID DOCUMENTS
10/6/2022 - BID SET

CITY OF GAINESVILLE
FOREST PARK WSP
LANDSCAPE NOTES & DETAILS

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

SHEET NO.: **L-301**

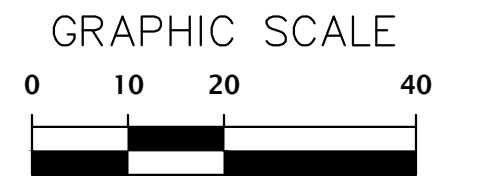
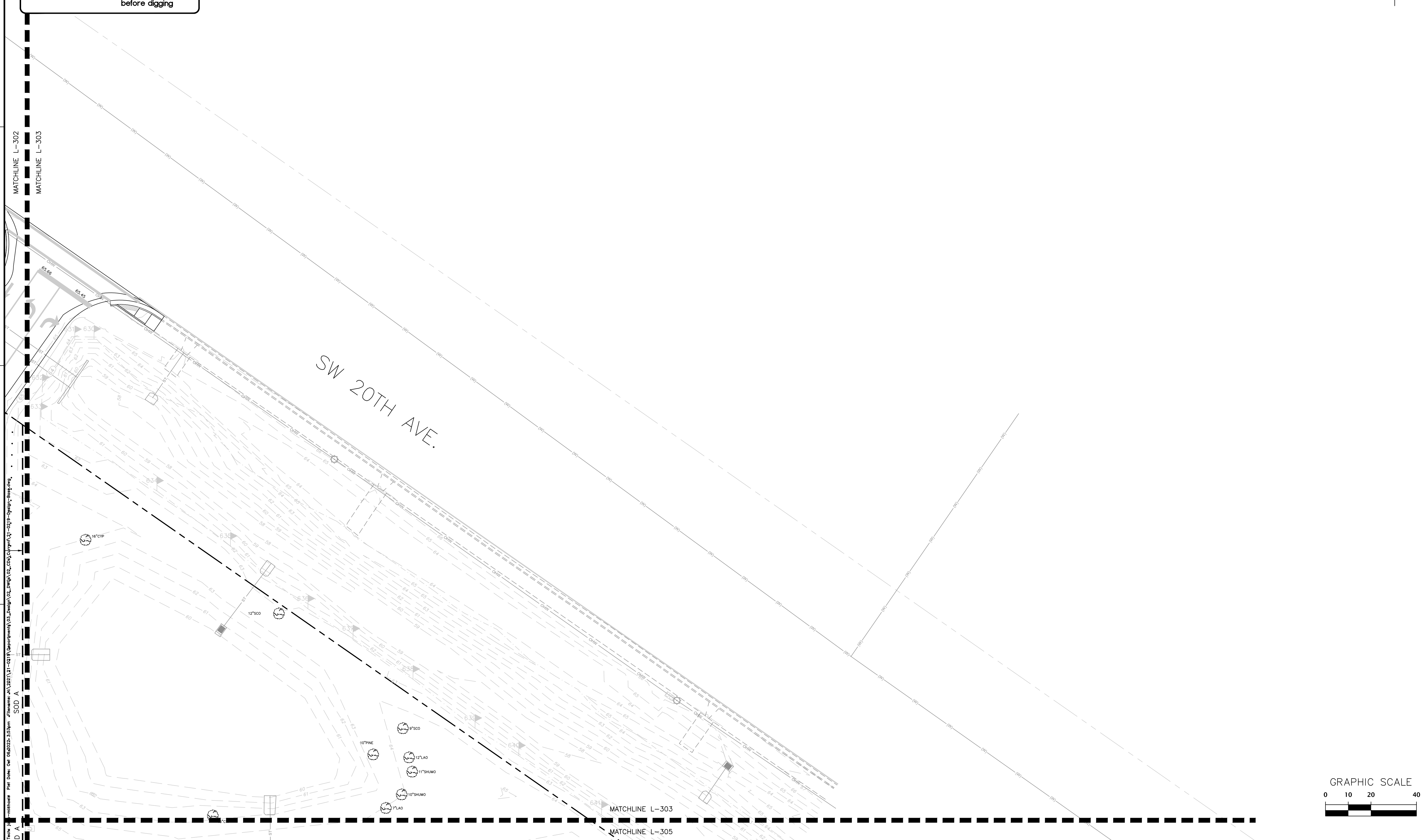
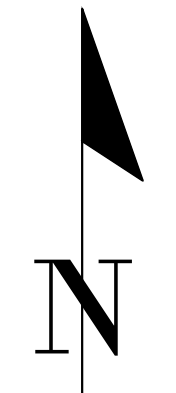


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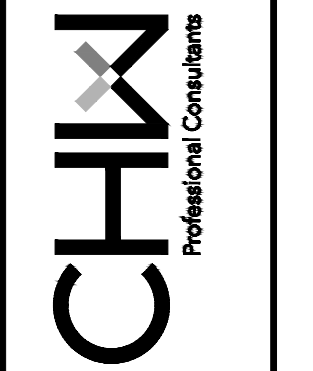
<p>11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLA000683</p>	
<p>CHW Professional Consultants</p>	
<p>SCALE: 1"=20'</p> <p>VERIFY SCALE BASED ON SCALE ON ORIGINAL DRAWING 0" MEANS THE DISTANCE THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	<p>CONSTRUCTION/BID REVISIONS</p>
<p>DATE: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET</p>	
<p>DESIGNER: JMS</p>	<p>CLIENT: CITY OF GAINESVILLE</p>
<p>RESURVEYOR: JMS</p>	<p>PROJECT: FOREST PARK WSP</p>
<p>QUALITY CONTROL: CT</p>	<p>SHEET TITLE: LANDSCAPE PLAN</p>
<p>PROJECT NUMBER: 21-0219</p>	<p>SHEET NO.: L-302</p>



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BASED ON THE ORIGINAL DRAWING
IF ANY DIMENSIONS ON THIS SHEET ADJUST
SCALES ACCORDINGLY.

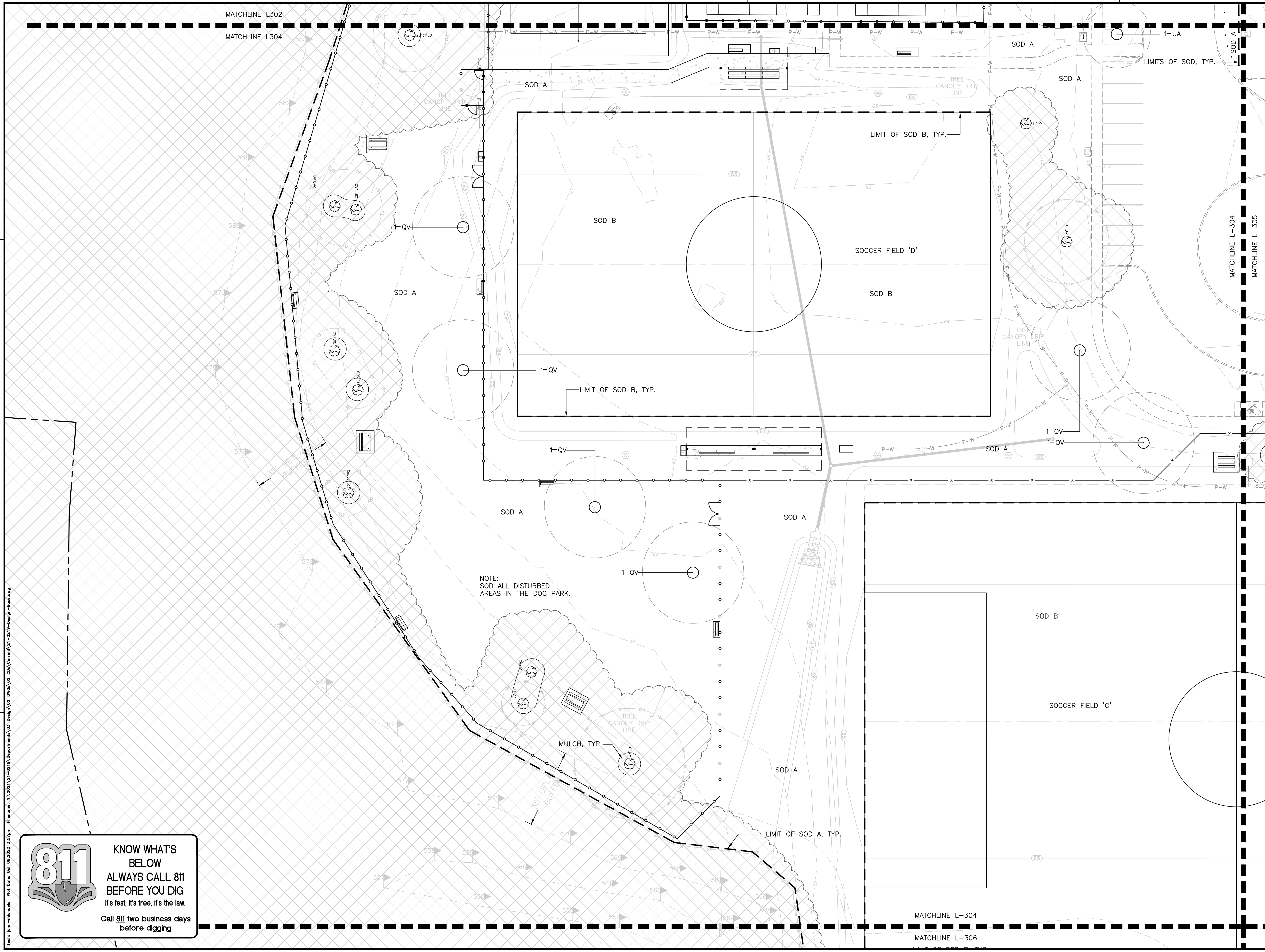
CONSTRUCTION/REV REVISIONS

DATE: 3/21/2022 - 100% CDS FOR REVIEW
8/15/2022 - BID DOCUMENTS
10/6/2022 - BID SET

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

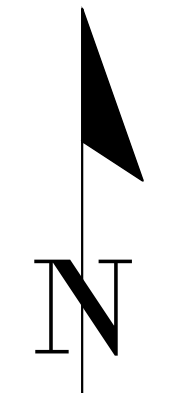
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CHECKER: JMS
QUALITY CONTROL: CT
PROJECT NUMBER: 21-0219

SHEET NO.: L-303

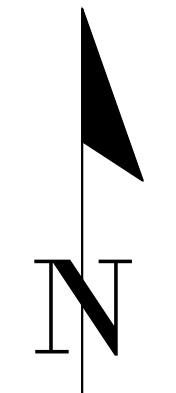
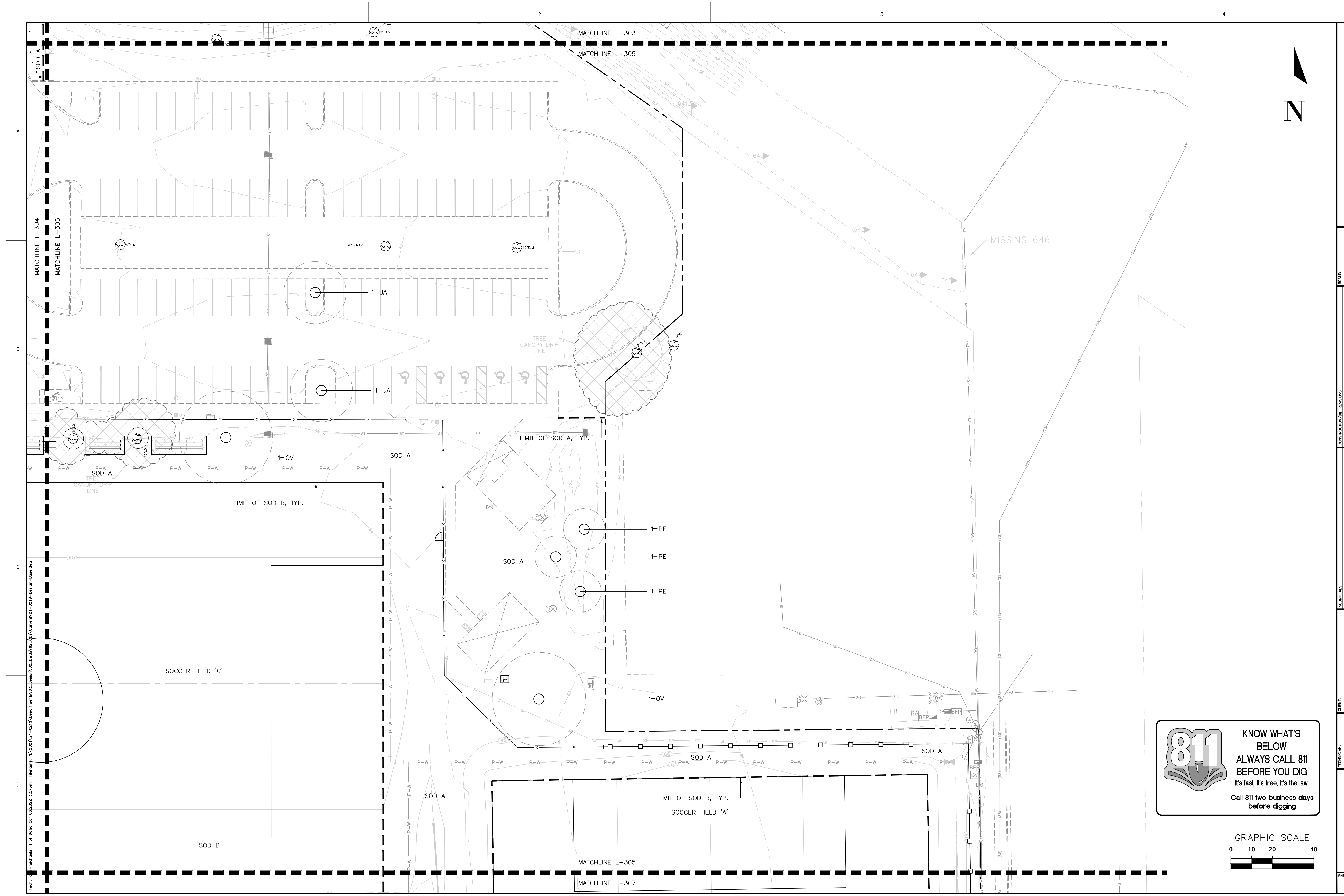


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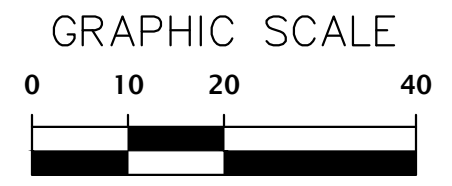
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COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 6/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET	CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSP SHEET TITLE: LANDSCAPE PLAN
DESIGNER: JMS CHECKER: JMS QUALITY CONTROL: CT	PROJECT NUMBER: 21-0219
SHEET NO.: L-304	



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1
2
3
4

A
B
C
D

MATCHLINE L-304
MATCHLINE L-305

MATCHLINE L-303
MATCHLINE L-305

MATCHLINE L-305
MATCHLINE L-307

MISSING 646

1-UA
1-PE
1-QV
1-PM

SOD A
SOD B

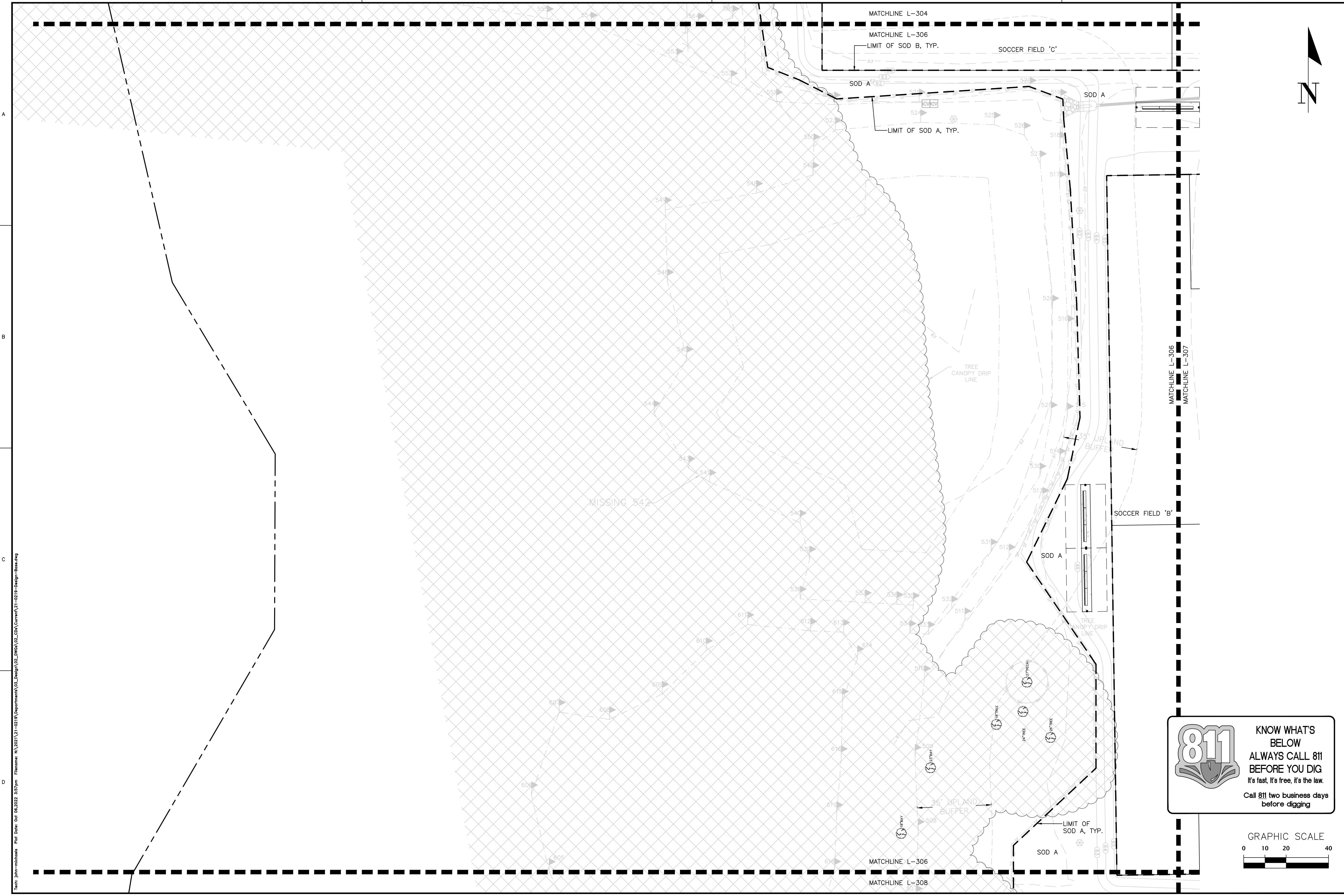
SOCCER FIELD 'C'
SOCCER FIELD 'A'

LIMIT OF SOD A, TYP.
LIMIT OF SOD B, TYP.

TREE CANOPY DRIP LINE

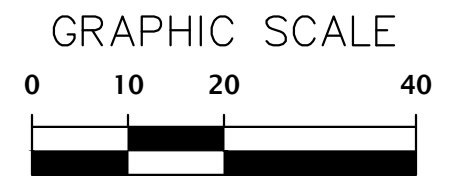
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CHW Professional Consultants	
SCALE: 1"=20' VERIFY SCALE BEFORE DIGGING ON ORIGINAL DRAWING 0 ALWAYS USE INSURETY THIS SHEET, ADJUST SCALES ACCORDINGLY.	CONSTRUCTION/REV. REVISIONS
COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET	
CLIENT: CITY OF GAINESVILLE FOREST PARK WSP PROJECT: FOREST PARK WSP LANDSCAPE PLAN SHEET TITLE: LANDSCAPE PLAN	SHEET NUMBER: 21-0219
DESIGNER: JMS CHECKER: JMS QUALITY CONTROL: CT PROJECT NUMBER: 21-0219	
SHEET NO.: L-305	

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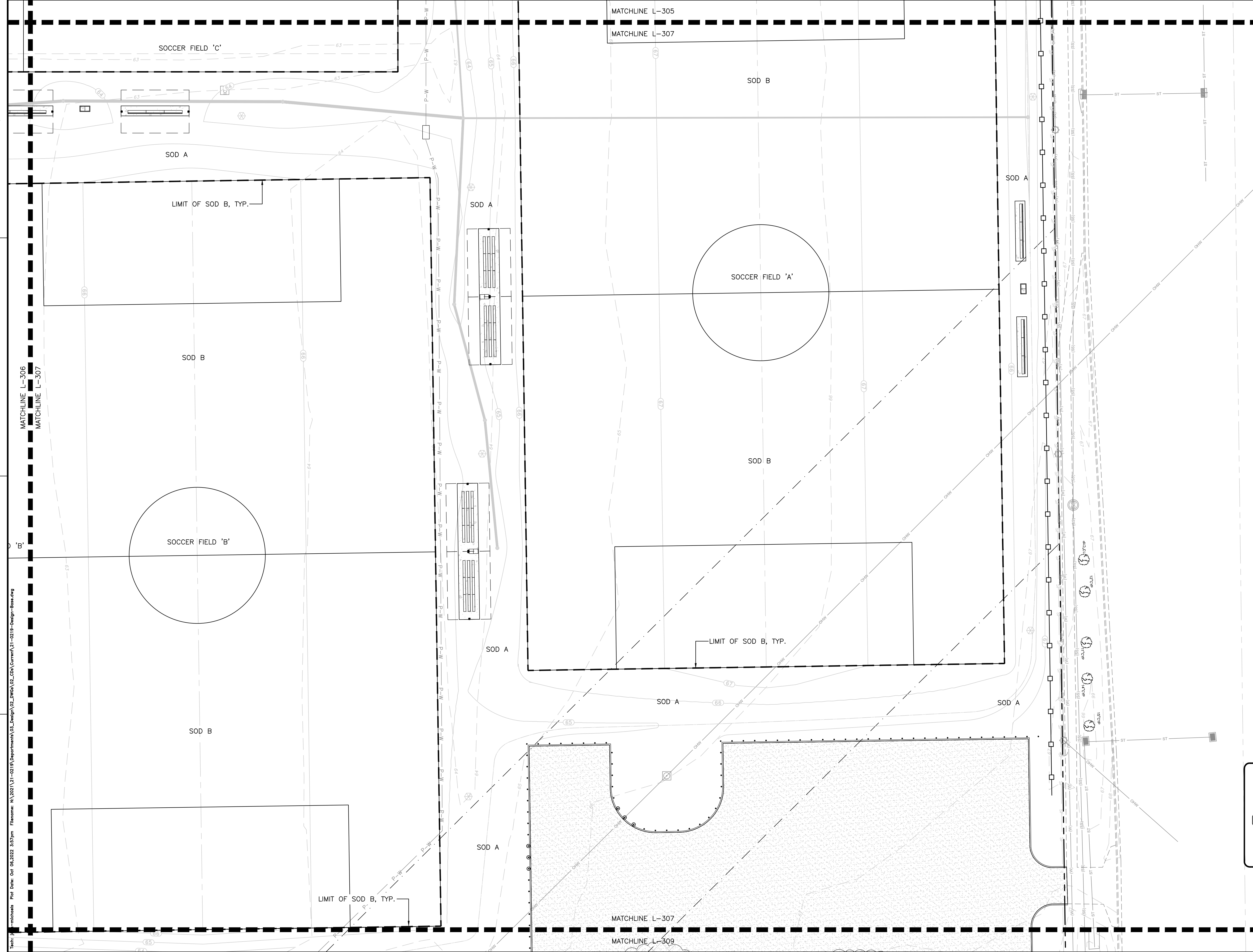


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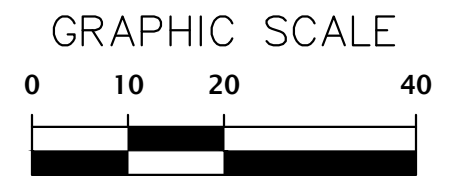


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SCALE: 1"=20' <small> VERIFY SCALE BEFORE USE BASED ON SCALE ON ORIGINAL DRAWING 0 INCHES = 20 FEET THIS SHEET, ADJUST SCALES ACCORDINGLY. </small>	CONSTRUCTION/BID REVISIONS	COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET
CLIENT: CITY OF GAINESVILLE	PROJECT: FOREST PARK WSP	SHEET TITLE: LANDSCAPE PLAN
DESIGNER: JMS	QUALITY CONTROL: CT	PROJECT NUMBER: 21-0219
SHEET NO.: L-306		

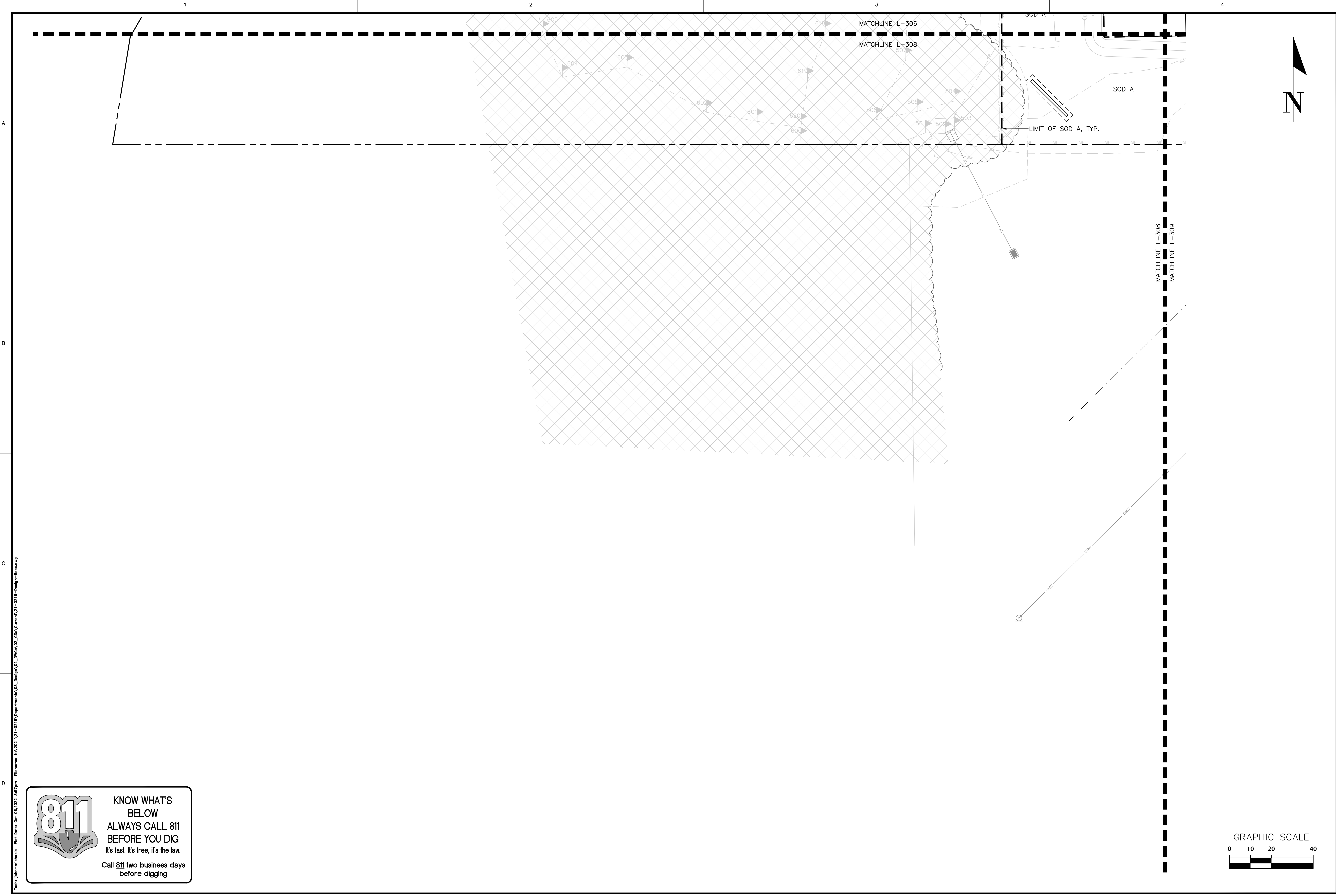


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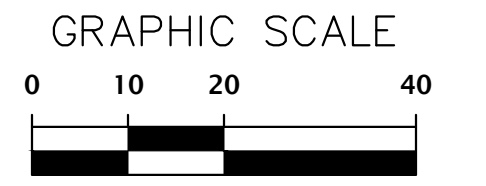
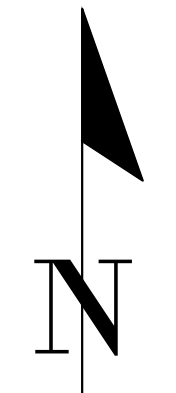


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SCALE: 1"=20' VERIFY SCALE BASED ON FIELD OR ORIGINAL DRAWING 0 MAY VARY SLIGHTLY THIS SHEET. ADJUST SCALES ACCORDINGLY.	CONSTRUCTION/BID REVISIONS	COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 8/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET
CLIENT: CITY OF GAINESVILLE	PROJECT: FOREST PARK WSPPP	SHEET TITLE: LANDSCAPE PLAN
DESIGNER: JMS	QUALITY CONTROL: CT	PROJECT NUMBER: 21-0219
SHEET NO.: L-307		

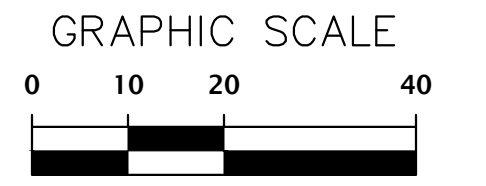
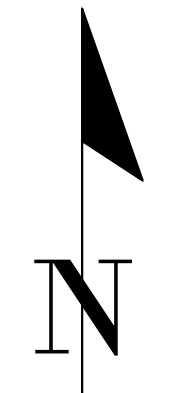
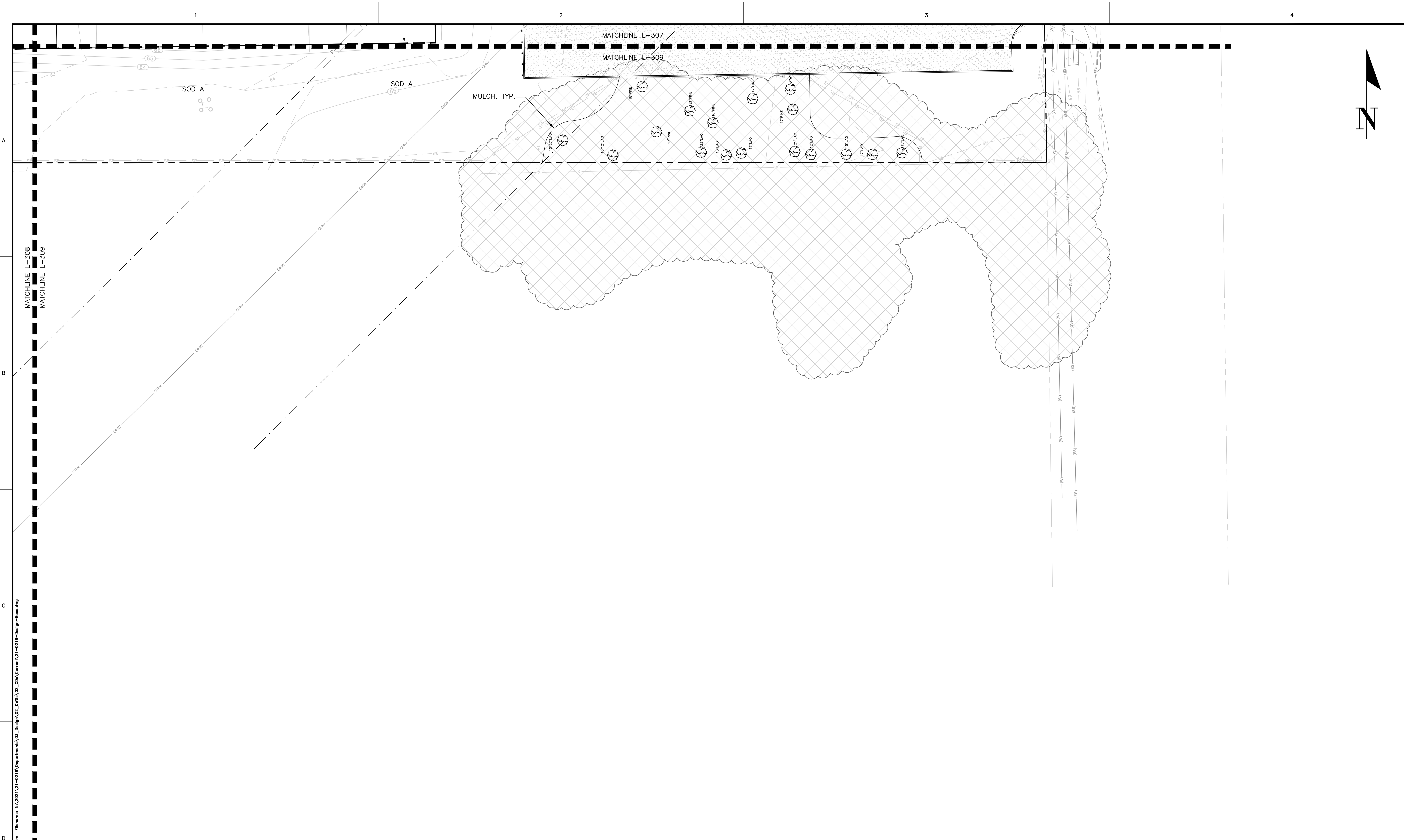


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DESIGNER: JMS QUALITY CONTROL: CT PROJECT NUMBER: 21-0219	PROJECT: FOREST PARK WSP SHEET TITLE: LANDSCAPE PLAN					SHEET NO.: L-308



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DESIGNER: JMS DESIGNER: JMS QUALITY CONTROL: CT PROJECT NUMBER: 21-0219	CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSP SHEET TITLE: LANDSCAPE PLAN	COMMENTS: 3/21/2022 - 100% CDS FOR REVIEW 6/15/2022 - BID DOCUMENTS 10/6/2022 - BID SET	SCALE: 1"=20' VERIFY SCALE BASED ON SCALE ON ORIGINAL DRAWING 0 MAY NOT BE USED FOR THIS SHEET, ADJUST SCALES ACCORDINGLY.	<div style="text-align: center;"> <p>Professional Consultants</p> </div> <p> 11801 Research Drive Alachua, Florida 32615 (352) 351-1976 www.chw-inc.com est. 1988 FLORIDA LA0001683 </p>
SHEET NO.: L-309				

1.0 GENERAL

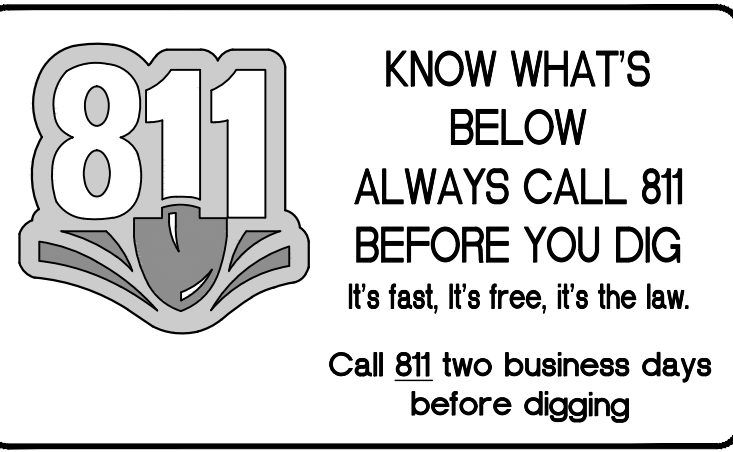
- 1.1 SUMMARY: Includes but not limited to:
 A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.
- 1.2 SYSTEM DESCRIPTION:
 A. Design Requirements:
 1. Layout of Irrigation Heads:
 a. Location of heads shown on Drawings 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.
 D. 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. Ametek 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:

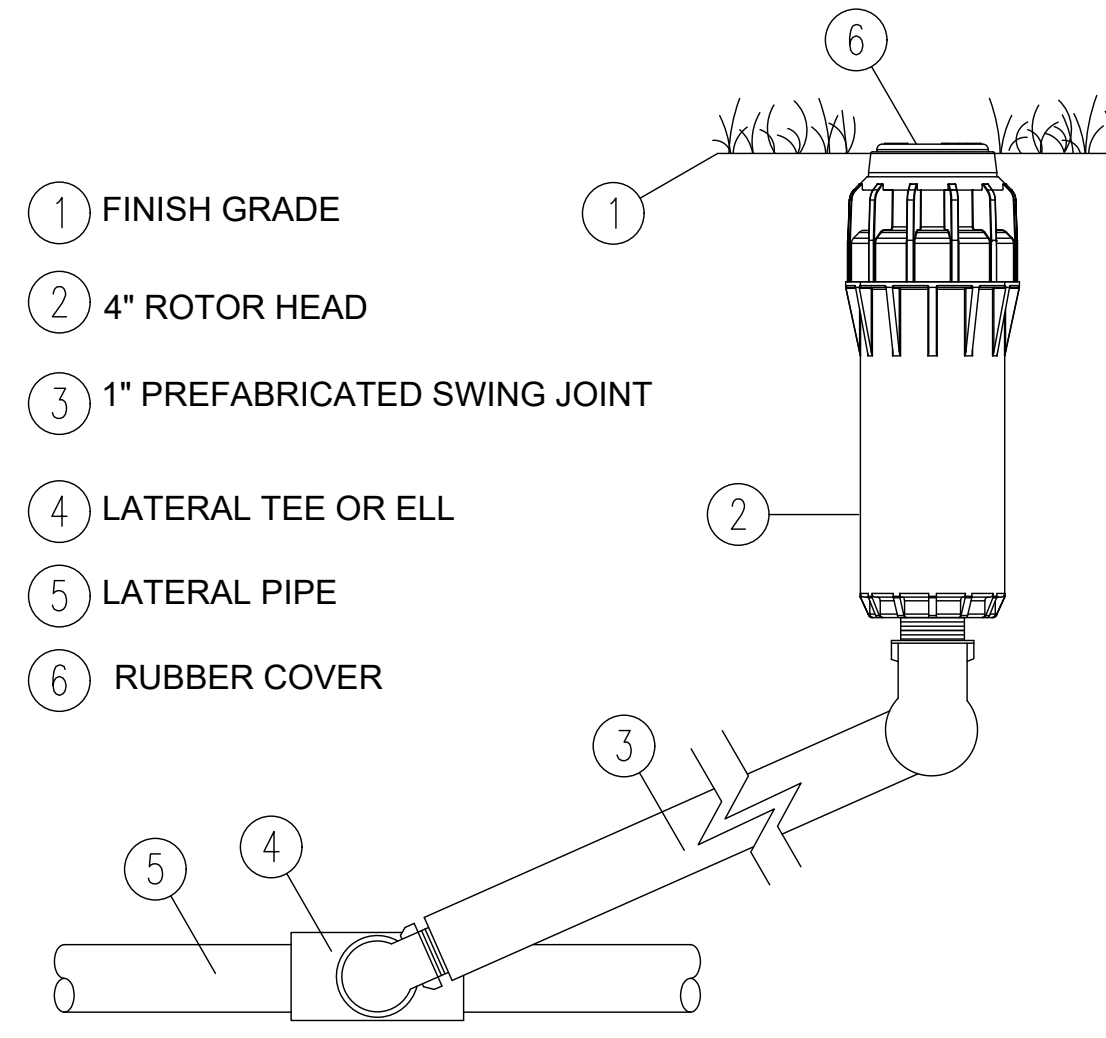
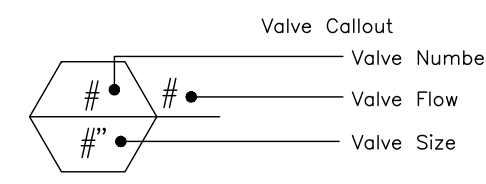
- 3.1 PREPARATION:
 A. Protection:
 1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense.
- 3.2 INSTALLATION:
 A. Trenching and Backfilling:
 1. Over-excavate trenches by two (2") inches and bring back to indicated 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.



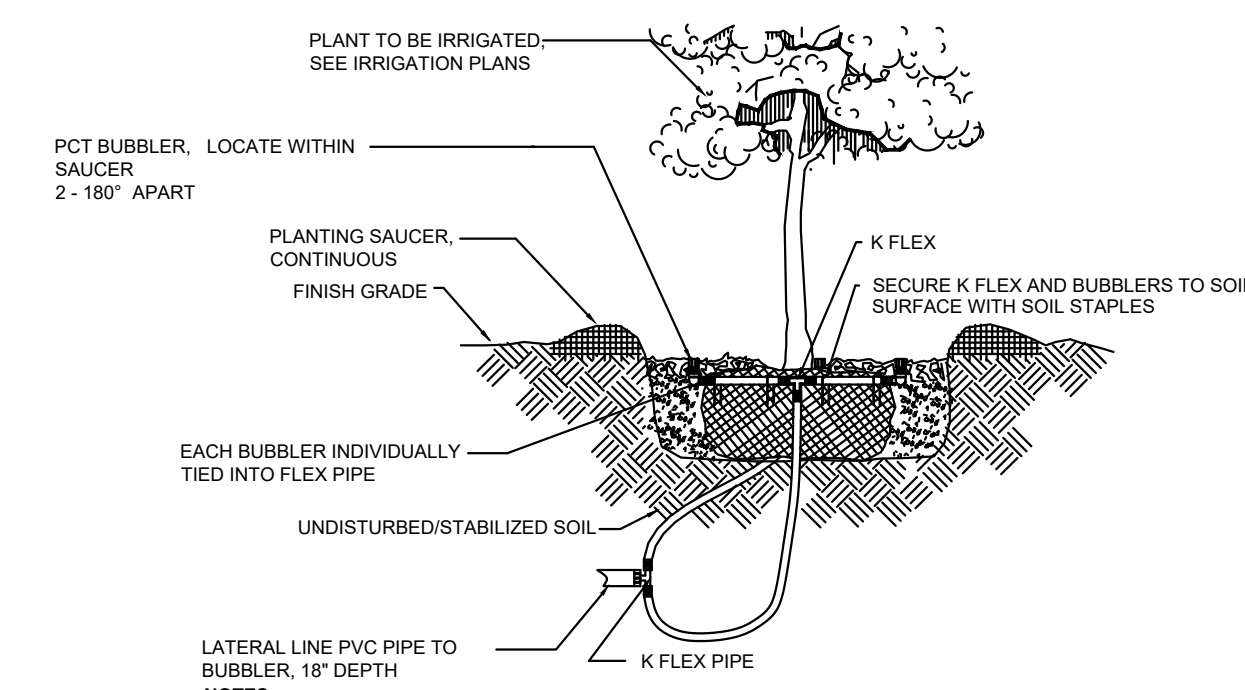
- B. Installation of Plastic Pipe:
 1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by Manufacturer.
 2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of twenty four (24") inches based on finish grade. Install lateral lines 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 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.
- E. 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.

IRRIGATION_SCHEDULE

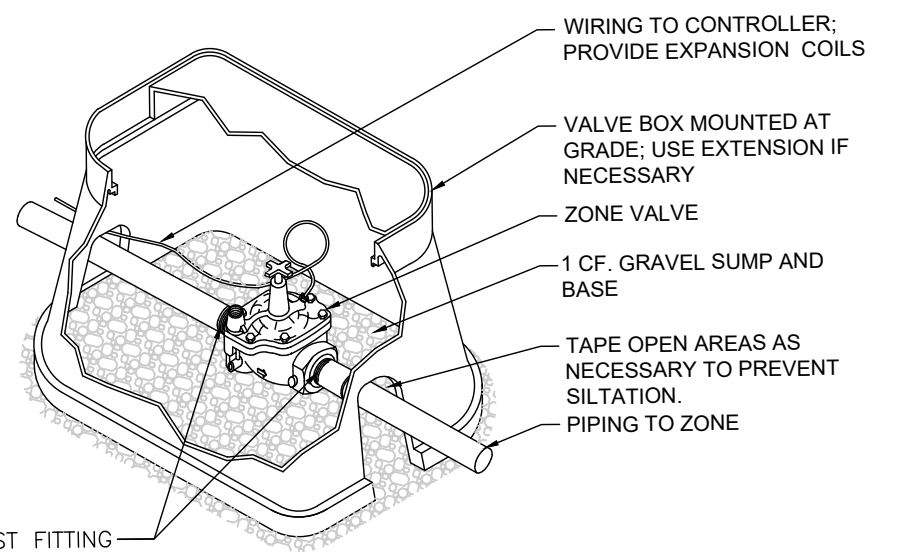
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☒	Two Hunter HE-60T	360	30	2 x.12	3'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	
Ⓜ	Hunter I-25-04 on Prefabricated 1" Swing Joint	50	13.4	56'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
⊕	Hunter ICV in a 12" Valve Box Install a Nibco T113 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				



1 125 BALL FIELD ROTOR HEAD
SCALE: N.T.S.



2 BUBBLER APPLICATION
SCALE: N.T.S.



3 ZONE VALVE INSTALLATION DETAIL
SCALE: N.T.S.

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SCALE: N/A
 REVIEW DATE: 08/15/2022
 ORIGINAL DRAWING: 08/15/2022
 THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/REV. REVISIONS

DATE: 08/15/2022
 100% CDS FOR REVIEW
 8/15/2022 - BID DOCUMENTS
 10/6/2022 - BID SET

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

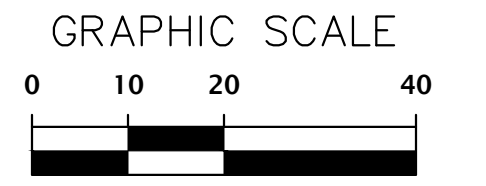
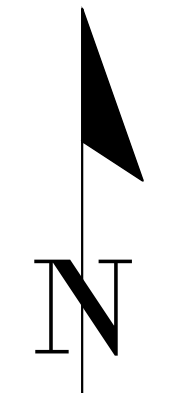
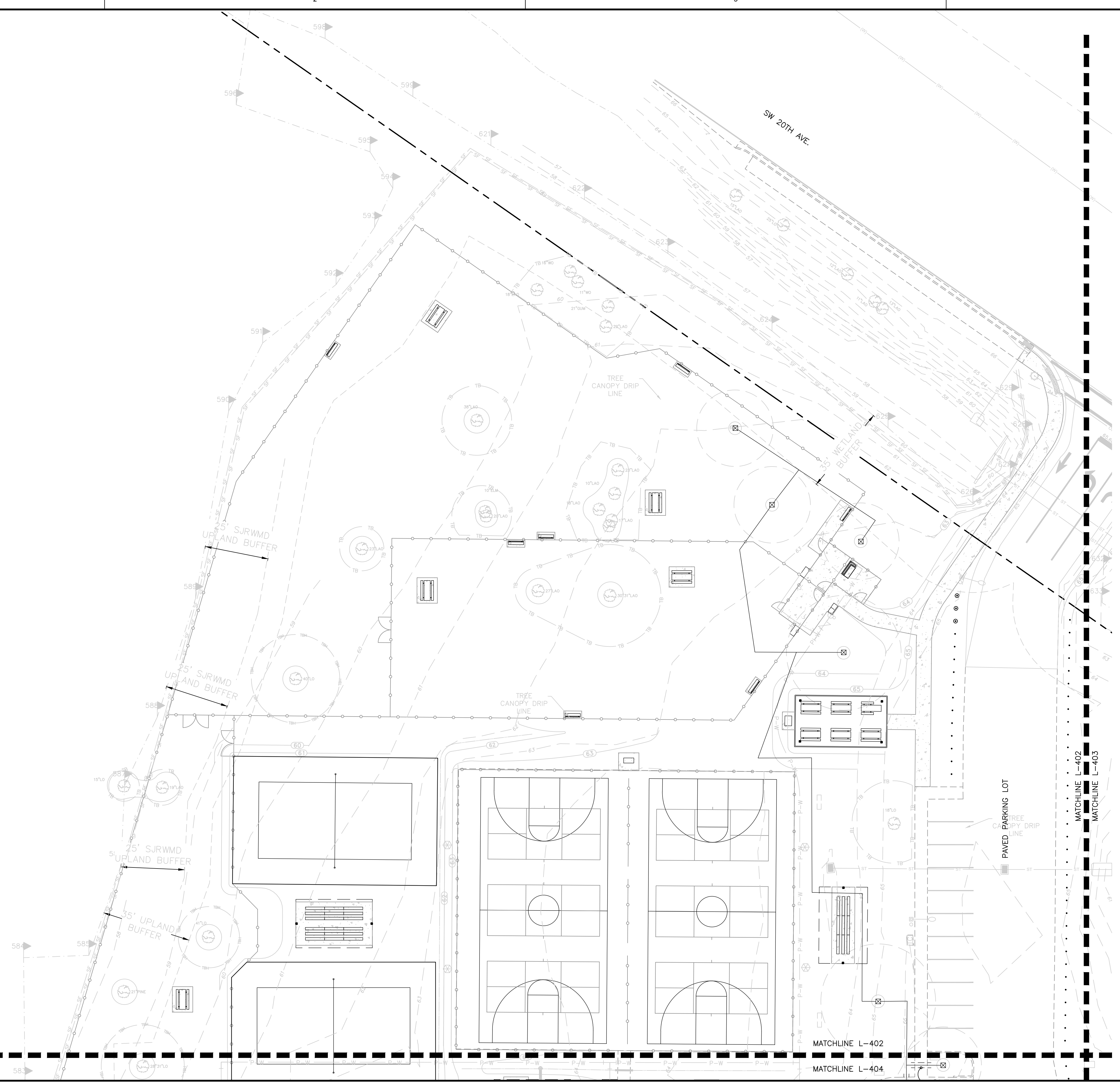
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 QUALITY CONTROL: CT
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Plot Date: 04/26/2022 3:57pm
User: jmh-mishra



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SCALE: 1"=20'
VERTICAL SCALE
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CONSTRUCTION/REVISIONS

DATE: 3/21/2022 - 100% CDS FOR REVIEW
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CITY OF GAINESVILLE
FOREST PARK WSP

DESIGNER: JMS
CHECKER: JMS
QUALITY CONTROL: CT

PROJECT NUMBER:
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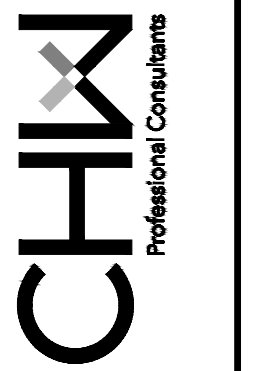
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SHEET NO.: L-402



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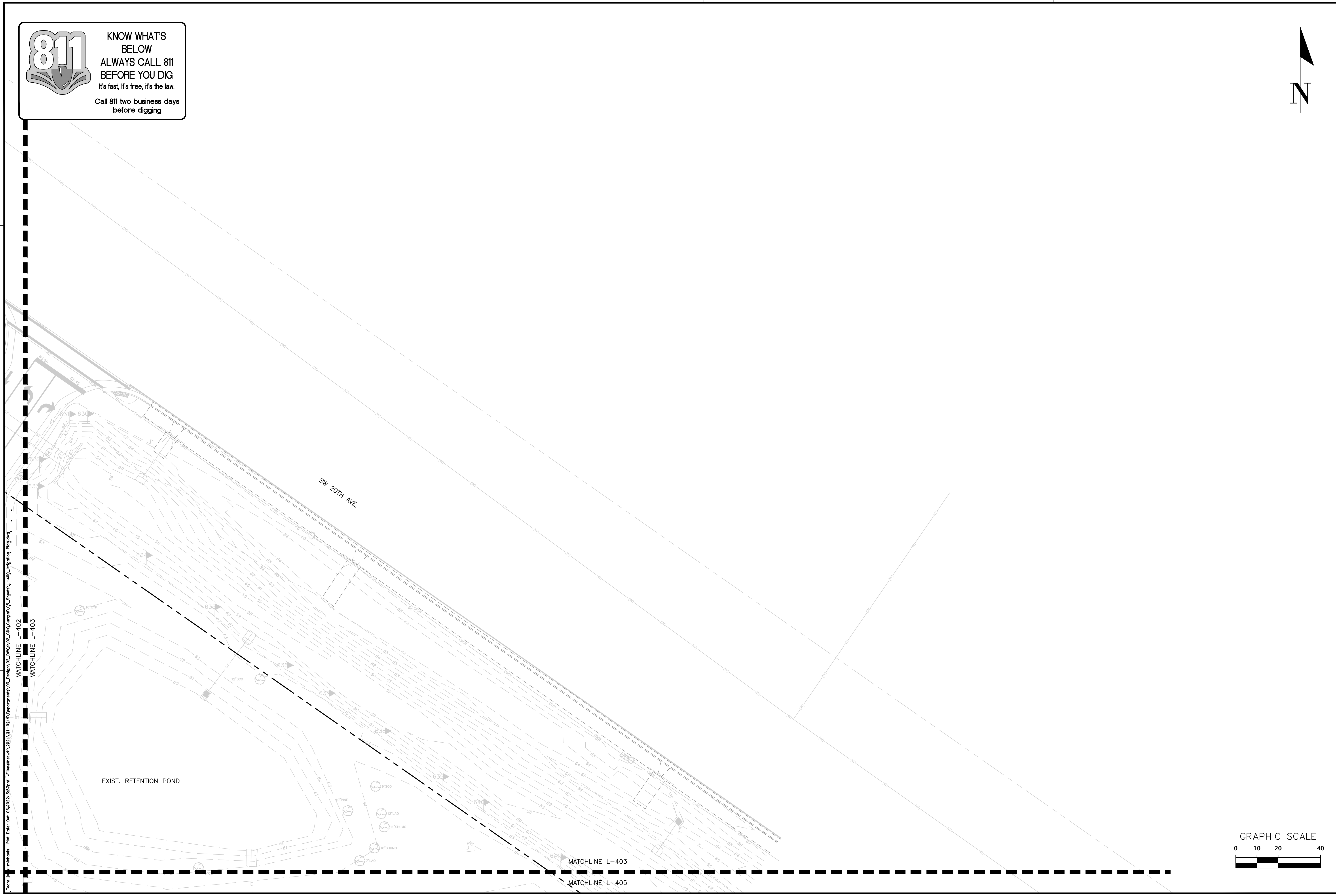
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DATE: 3/21/2022
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CLIENT: CITY OF GAINESVILLE
 PROJECT: FOREST PARK WSP
 SHEET TITLE: IRRIGATION PLAN

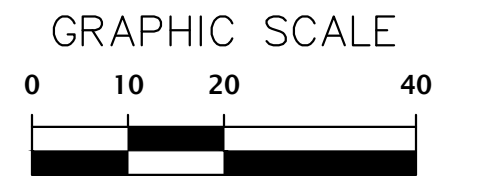
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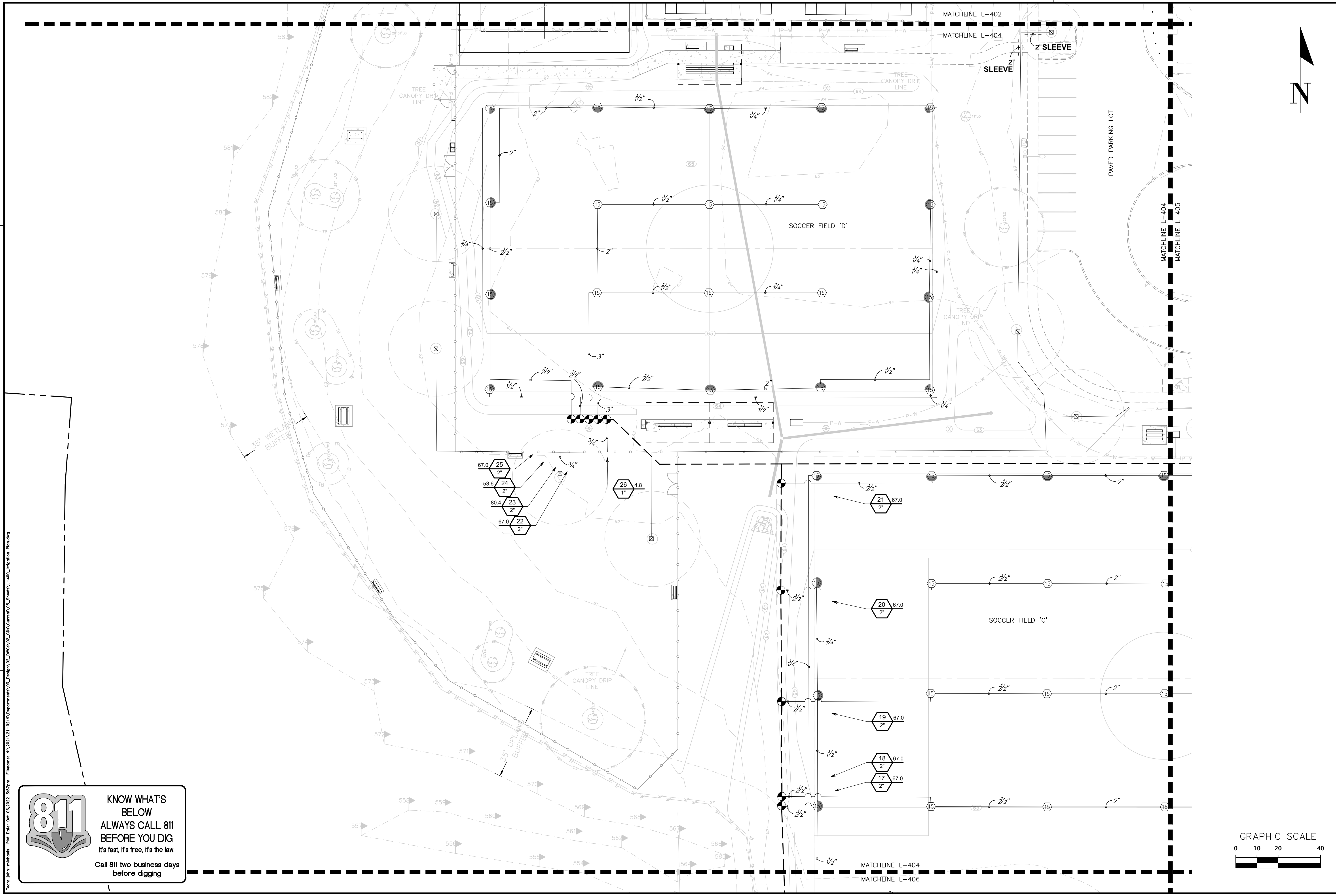
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 MATCHLINE L-403

MATCHLINE L-403
 MATCHLINE L-405





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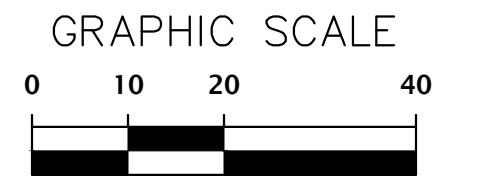
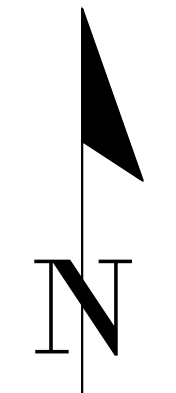
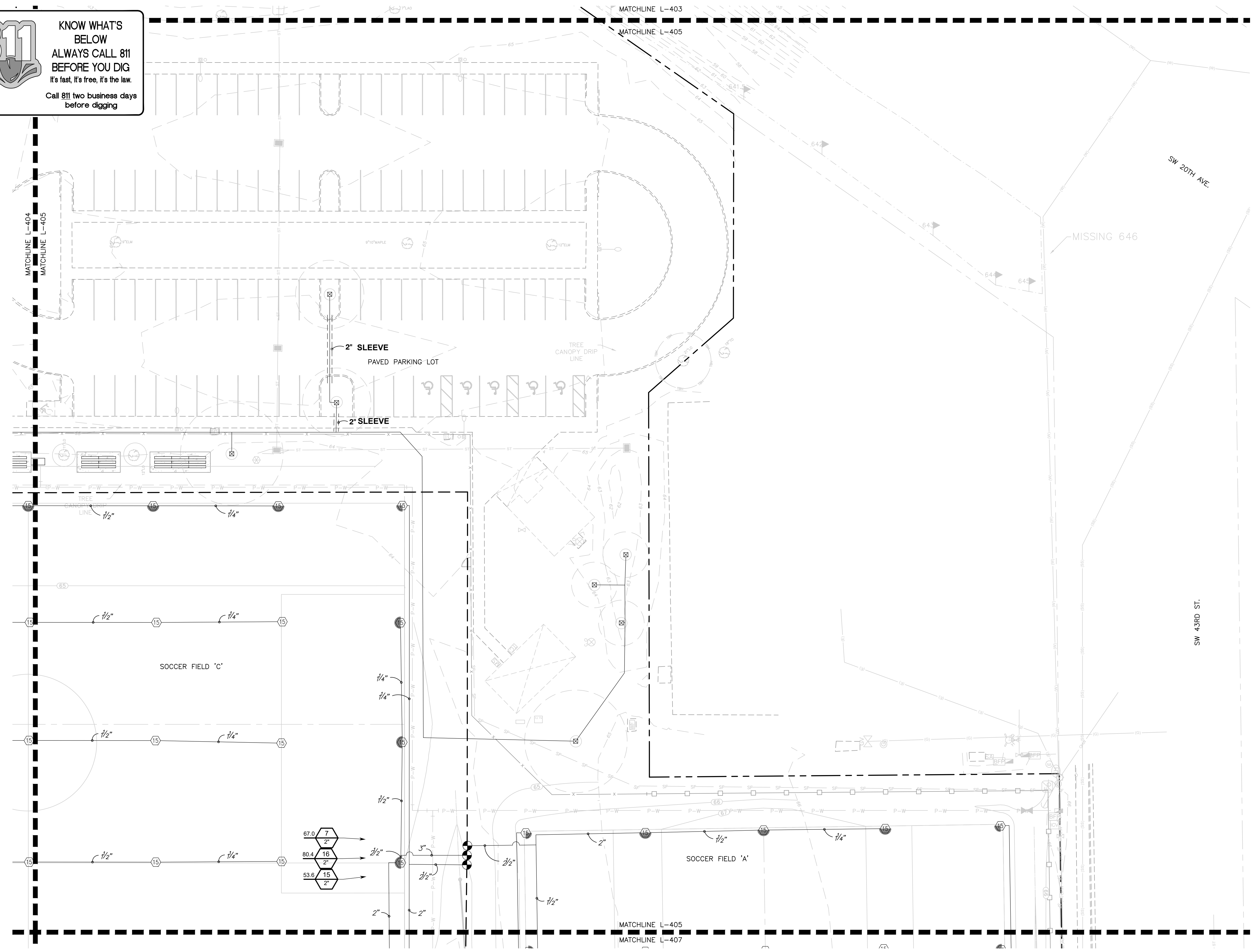
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 User: jms



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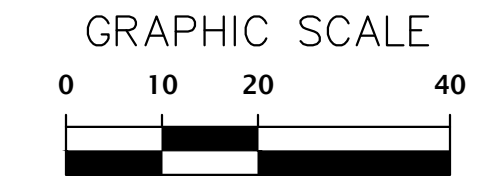
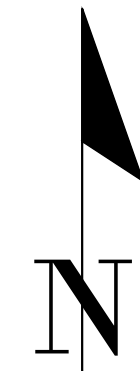
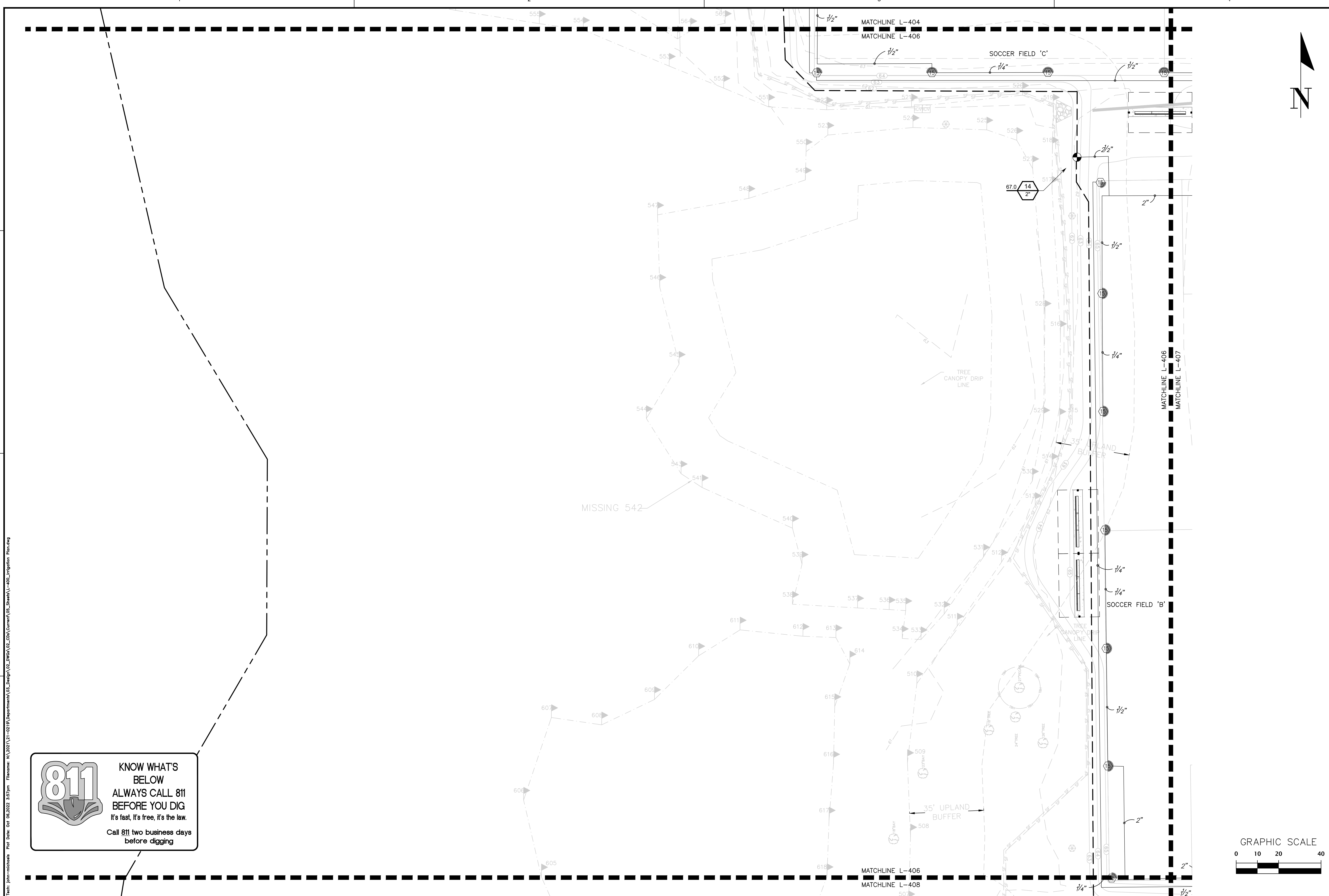


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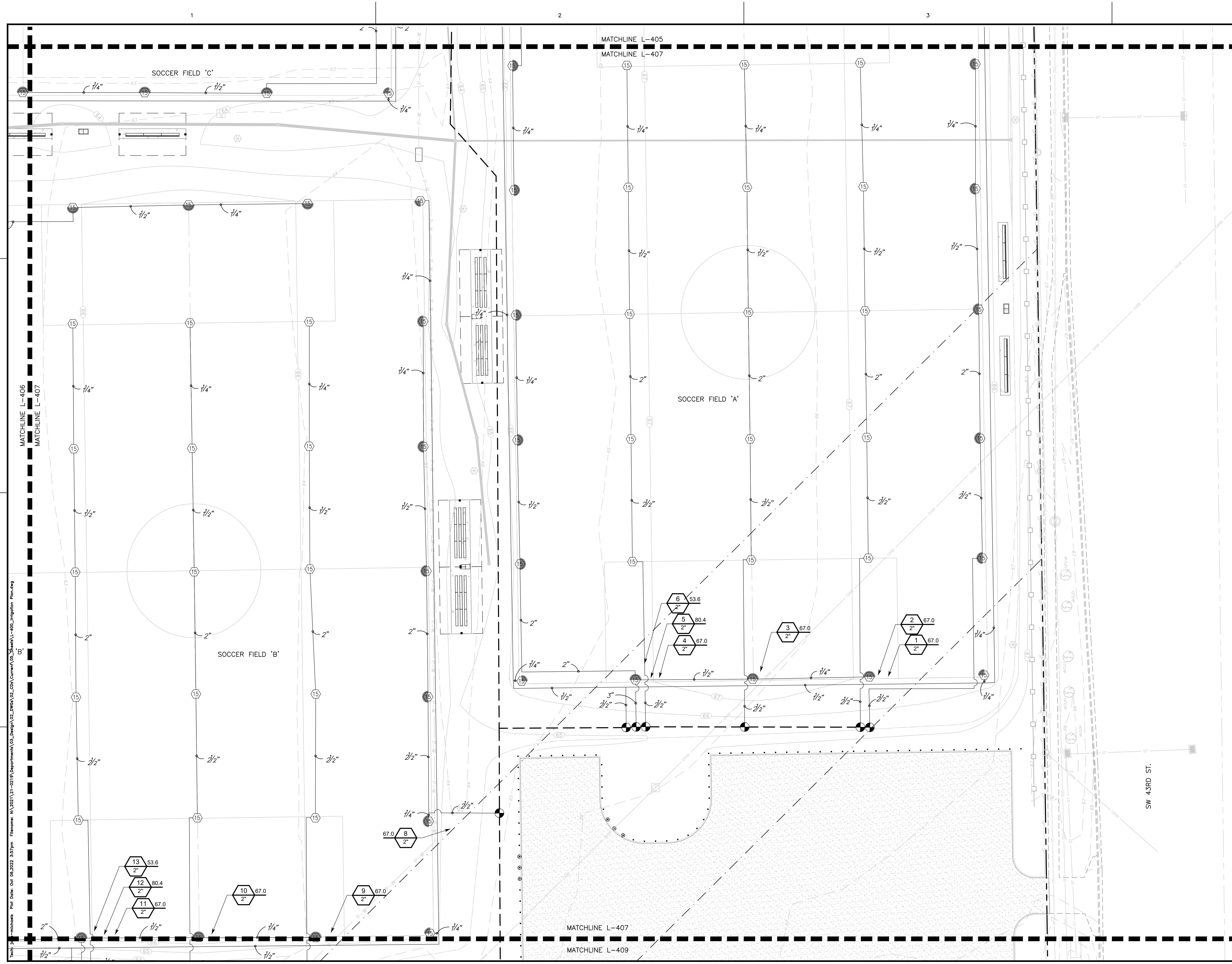
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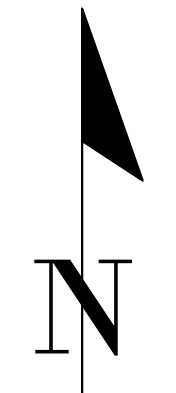
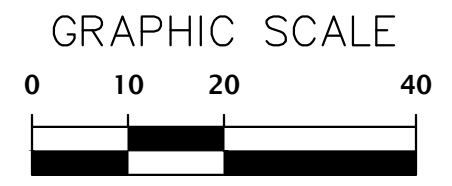
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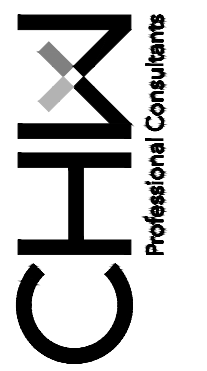
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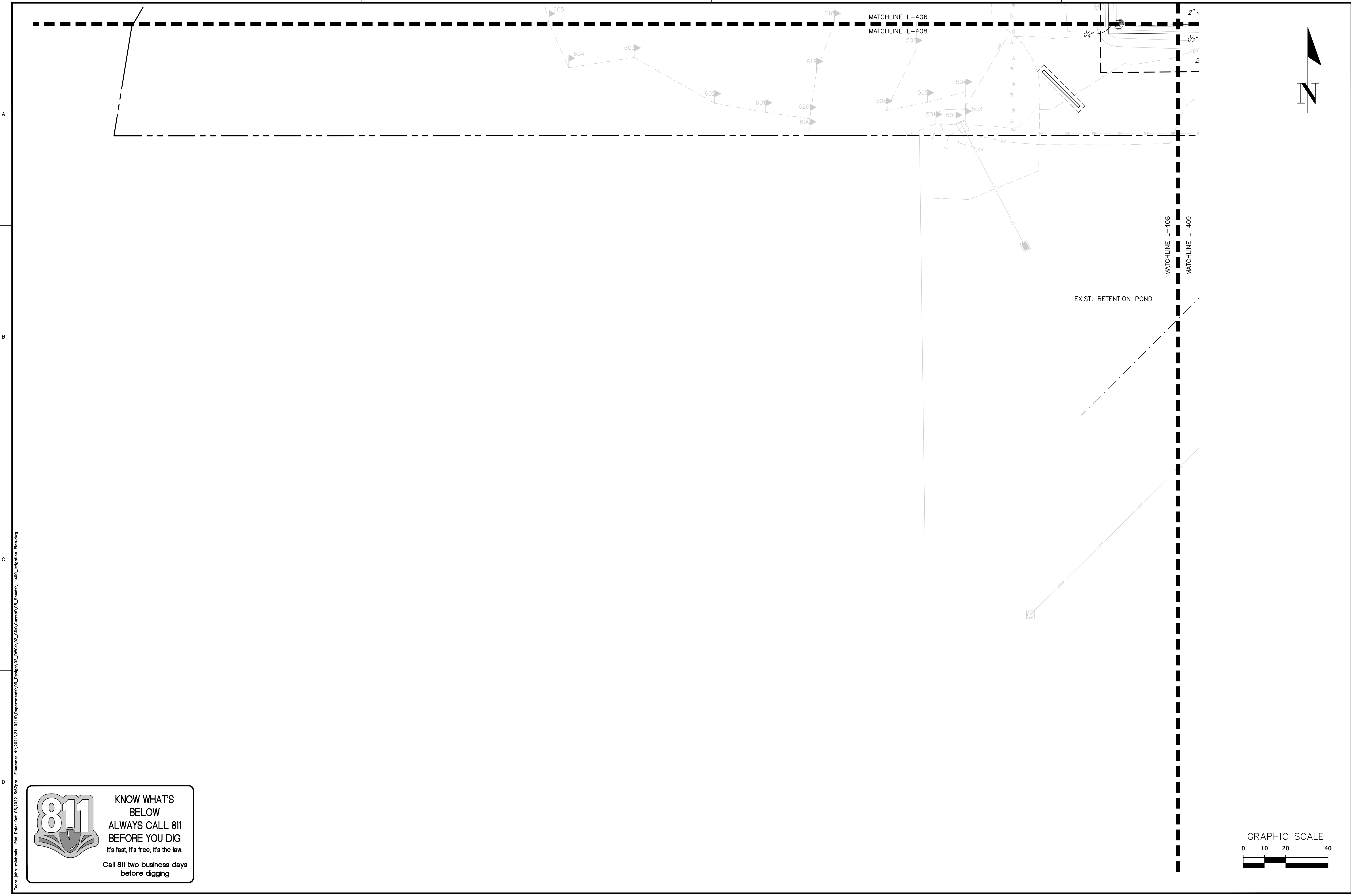


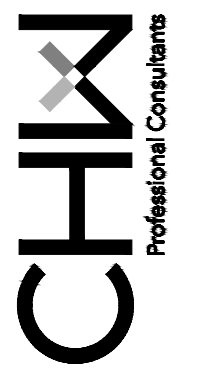

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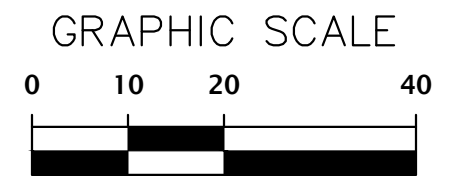
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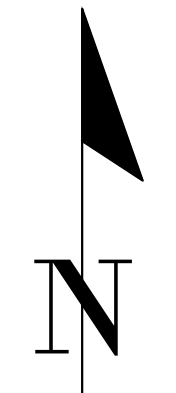
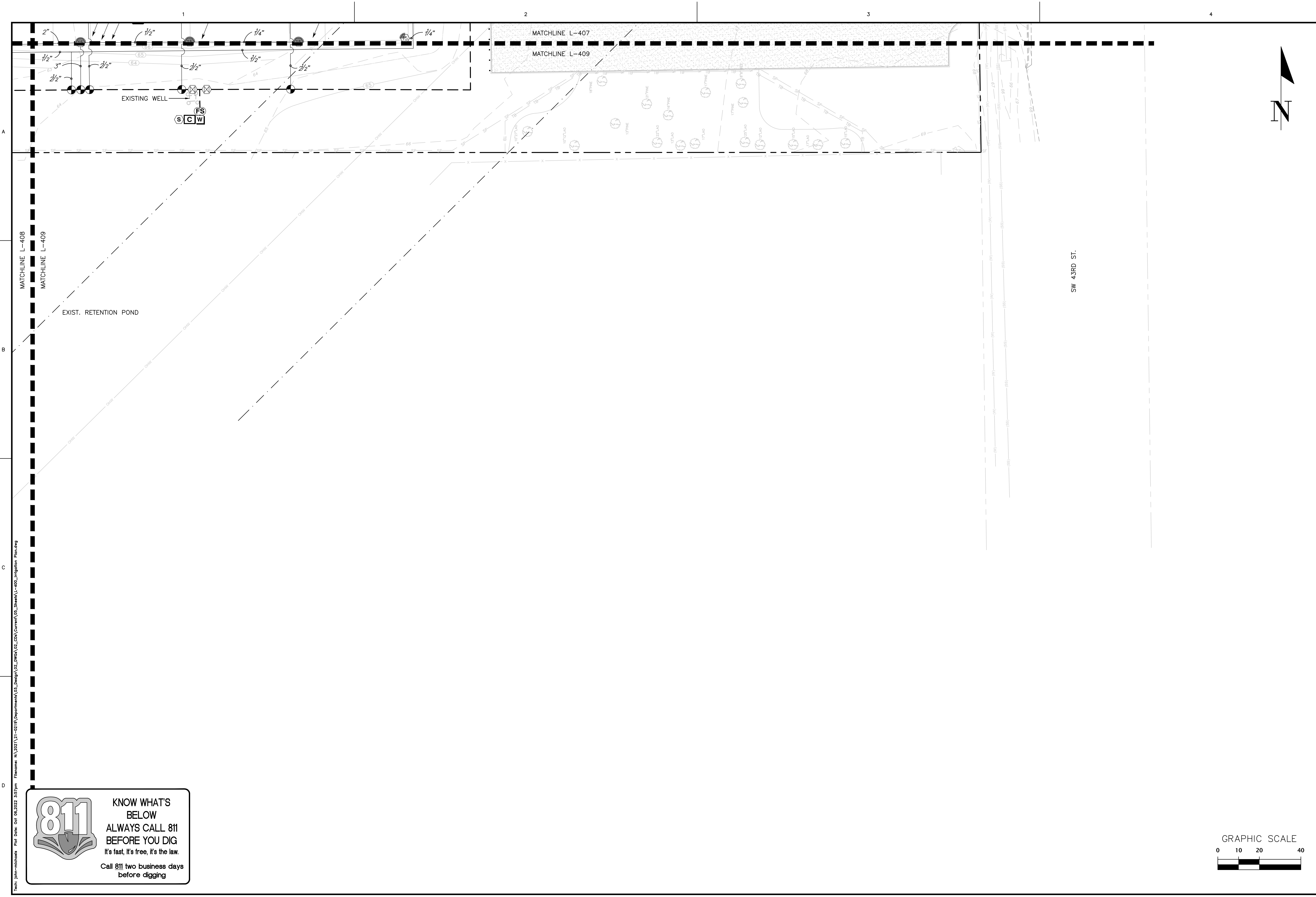
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