

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

PREPARED BY:

CAROLINA ENGINEERING CONSULTANTS, INC.

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800 CONGRESS ST BEAUFORT, SC 29902

PHONE
(843)322-0553



APPROXIMATE LOCATION OF SITE

SCALE: 1"=3000'

[illegible]

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE

SEDIMENT & EROSION CONTROL NOTES:

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

—WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
—WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

PROVIDE SILT FENCE AND/ OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72–300 ET SEQ. AND SCR100000.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/ OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.

LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H: 1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
—WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

—WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;

—FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND

—SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/ OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

GENERAL SCDOT NOTES:

WHERE NEW CONSTRUCTION IS NEAR THE EDGE OF AN EXISTING PAVED ROADWAY, A TRAFFIC LANE WILL BE TEMPORARILY CLOSED TO PROVIDE SAFETY TO THE PUBLIC AND TO THE WORKMEN. NO LANE CLOSURES DURING 7:00 AM TO 9:00 AM OR FROM 3:30 PM TO 6:00 PM ARE ALLOWED.

APPLICANT WILL REPAIR ALL DAMAGE DONE TO ROADSIDE AND RESEED WITH PERMANENT GRASS.

TRAFFIC CONTROLS FOR THIS INSTALLATION SHALL BE IN ACCORDANCE WITH S.C.M.U.T.C.D.

PAVEMENT MARKING LINES TO BE THERMOPLASTIC.

RAISED REFLECTIVE PAVEMENT MARKER RRPMS TO BE INSTALLED IN ACCORDANCE WITH SCDOT'S STANDARD DRAWINGS NO. 603–1 THRU 603–8 JULY, 1997.

ALL PROPOSED SIGNAGE AND PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD.

**GENERAL:
PAVING, GRADING, & DRAINAGE NOTES:**

CAROLINA ENGINEERING CONSULTANTS, INC.'S WRITTEN CONSTRUCTION SPECIFICATIONS WILL BE FOLLOWED ON THIS JOB. IF CONTRACTOR NEEDS COPY OF THESE SPECIFICATIONS, PLEASE CONTACT CAROLINA ENGINEERING.

TOPOGRAPHY, BOUNDARY, WETLAND AND BASE INFORMATION PROVIDED BY COASTAL SURVEYING CO.

BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL MANHOLE AND INVERT ELEVATIONS BEFORE STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.

SILT FENCE AND TREE FENCES TO BE IN PLACE PRIOR TO COMMENCING WORK.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS, THE BOTTOM OF THE WATER MAIN SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

WHERE NEW CONSTRUCTION IS NEAR THE EDGE OF AN EXISTING PAVED ROADWAY, A TRAFFIC LANE WILL BE TEMPORARILY CLOSED TO PROVIDE SAFETY TO THE PUBLIC AND TO THE WORKMEN. NO LANE CLOSURES DURING 7:00 AM TO 9:00 AM OR FROM 3:30 PM TO 6:00 PM ARE ALLOWED.

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ALL PROPOSED SIGNAGE AND PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD.

**GENERAL:
WATER, & SANITARY SEWER NOTES:**

BJWSA CONSTRUCTION SPECIFICATIONS WILL BE FOLLOWED ON THIS JOB. IF CONTRACTOR NEEDS COPY OF THESE SPECIFICATIONS, PLEASE CONTACT CAROLINA ENGINEERING.

BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS.

WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS THE BOTTOM OF THE WATER MAIN, THERE SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

4"Ø SEWER LATERALS SHALL BE LAID WITH A MINIMUM SLOPE OF 2.0%

6"Ø SEWER LATERALS SHALL BE LAID WITH A MINIMUM SLOPE OF 1.0%

METER(S) TO BE PURCHASED FROM, SIZED & INSTALLED BY BJWSA .

MAINTAIN A 5' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND STORM DRAINAGE LINES.

SURVEYOR:

TOPOGRAPHY, BOUNDARY, WETLAND AND BASE INFORMATION PROVIDED BY COASTAL SURVEYING CO. 49 RIVERWALK BLVD. BUILDING 8, RIDGELAND SC 29936 (843) 815–3304 PLS# 11905

SYMBOL LEGEND:

AIR RELEASE VALVE



BENCHMARK



CATCH BASIN



CLEAN OUT



CURB INLET



DRAINAGE ARROW



DUAL SWEEP CLEANOUT



EXISTING MANHOLE



EXISTING FIRE HYDRANT



EXISTING WATER METER



EXISTING WATER VALVE



GUY WIRE



JUNCTION BOX



LIGHT POLE



MAILBOX



MATCHLINE TARGET



OUTFALL CONTROLL STRUCTURE



PIPELINE MARKER



PIPELINE VENT



PLUG



POST INDICATOR VALVE



POWER POLE



PROPOSED FIRE HYDRANT



PROPOSED MANHOLE



PROPOSED RPZ BACKFLOW PREVENTER



PROPOSED WATER METER



PROPOSED WATER VALVE



REDUCER



SEWER LATERAL



SEWER VALVE



SEWER VALVE MARKER



TRAFFIC RATED CLEAN OUT



TRANSFORMER



UTILITY POLE



WATER LATERAL



WATER MARKER



WATER VALVE MARKER



WELL



YARD INLET



TREE LEGEND

REMAIN

REMOVE

0 10 15

10 15

TREE IDENTIFICATION

ABBREVIATION DESCRIPTION

CH CHERRY

CR CREPE MYRTLE

DW DOGWOOD

HOL HOLLY

LA LAUREL OAK

LO LIVE OAK

MAG MAGNOLIA

MP MAPLE

PE PECAN

PLM PALM

PN PINE

RO RED OAK

UNK UNKNOWN

WHO WHITE OAK

WIL WILLOW TREE

WO WATER OAK

TREE PROTECTION & REMOVAL NOTES:

INSTALL ALL TREE PROTECTION FENCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ABBREVIATIONS

ABBREVIATION DESCRIPTION

MH MANHOLE

FM FORCEMAIN

CI CURB INLET

GI GRATE INLET

YI YARD INLET

LF LINEAR FEET

FOPT FIBER OPTIC

IRR IRRIGATION

CL CENTER LINE

EOP EDGE OF PAVEMENT

BOC BACK OF CURB

R/W RIGHT OF WAY

TP TOP OF PAVEMENT

TS TOP OF SIDEWALK

FG FINISH GRADE

FFE FINISHED FLOOR ELEVATION

LINE LEGEND:

EXISTING WATER LINE — W — W — W —

EXISTING STORM DRAIN — SD — SD — SD —

EXISTING SANITARY SEWER — SS — SS — SS —

OVERHEAD POWER LINE — OHP — OHP — OHP —

EXISTING GAS LINE — GAS — GAS — GAS —

EXISTING FORCE MAIN — FM — FM — FM —

CHAINLINK FENCE — X — X — X —

TREE CANOPY

ELECTRICITY PROVIDER:

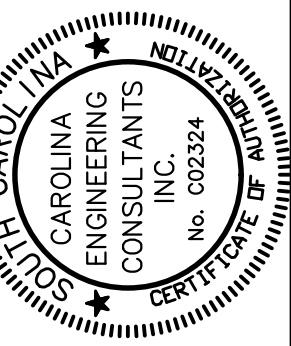
DOMINION ENERGY
PARKS MOSS
843–540–1315
HENRY.MOSS@DOMINIONENERGY.COM

TELECOMMUNICATIONS:

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RODNEY CANNON
843–987–1697
RODNEY.CANNON@HTC.HARGRAY.COM

WATER & SANITARY SEWER:

BJWSA
MATTHEW MICHAELS
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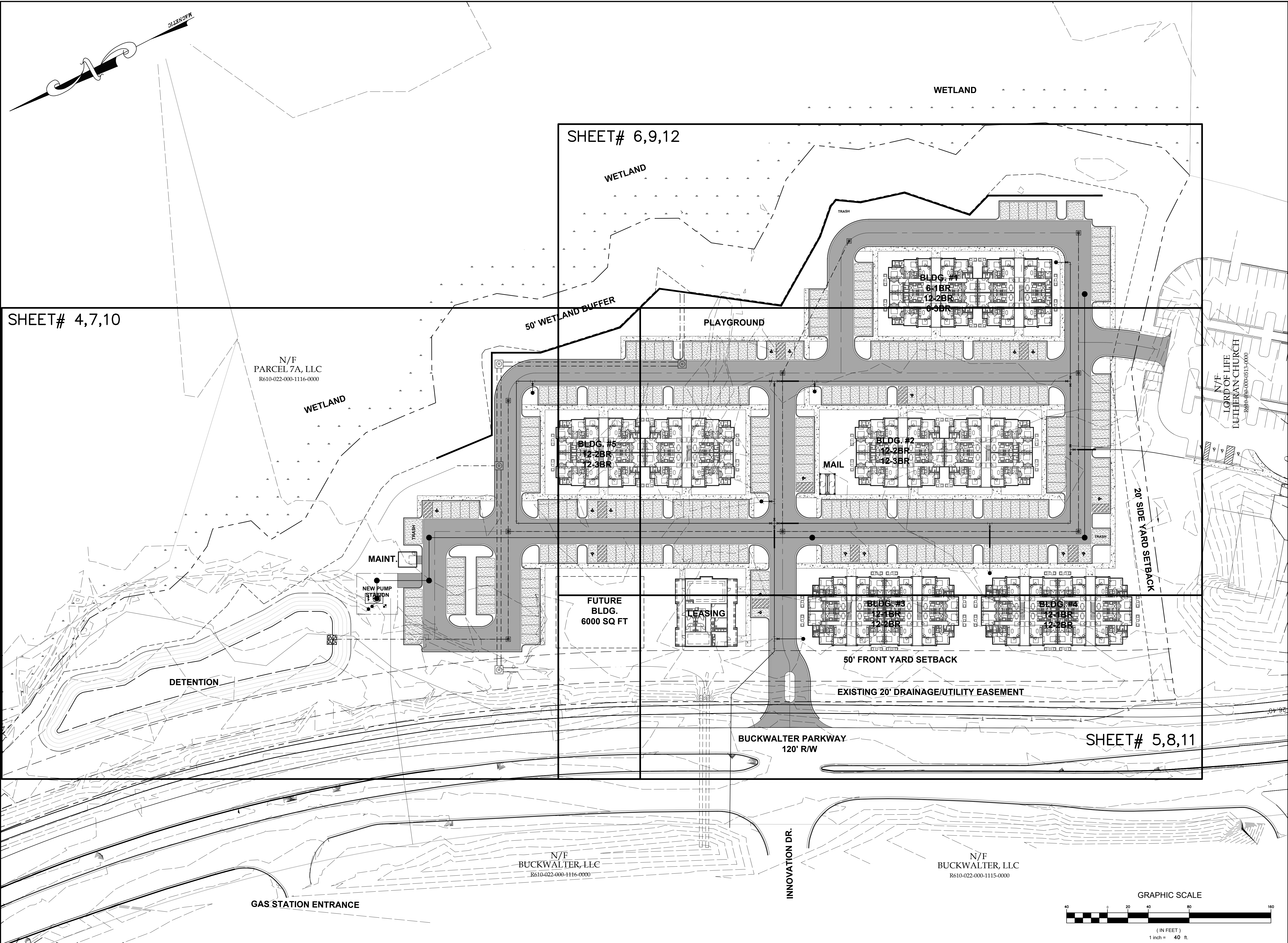
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BUCKWALTER PARKWAY
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PROJECT: 2567
DATE: 01/02/24
REVISED: 07/30/25
DRAWN BY: BJS
ENGINEER: JPA
H-DATUM: NAD 83
V-DATUM: NAVD 88
SCALE: NTS

GENERAL NOTES
& LEGEND



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No. 002324

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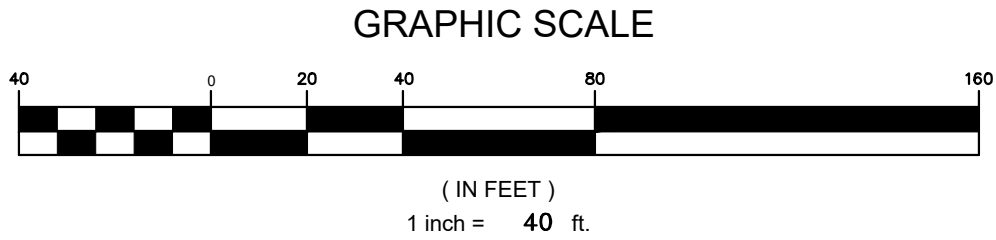
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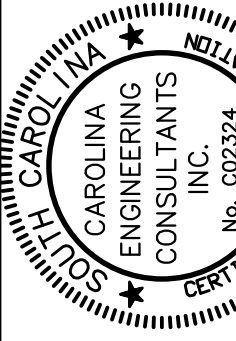
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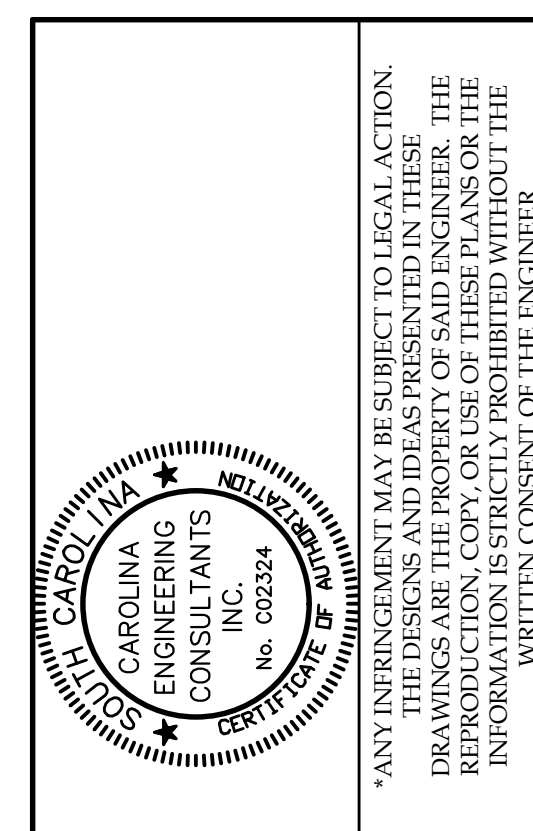
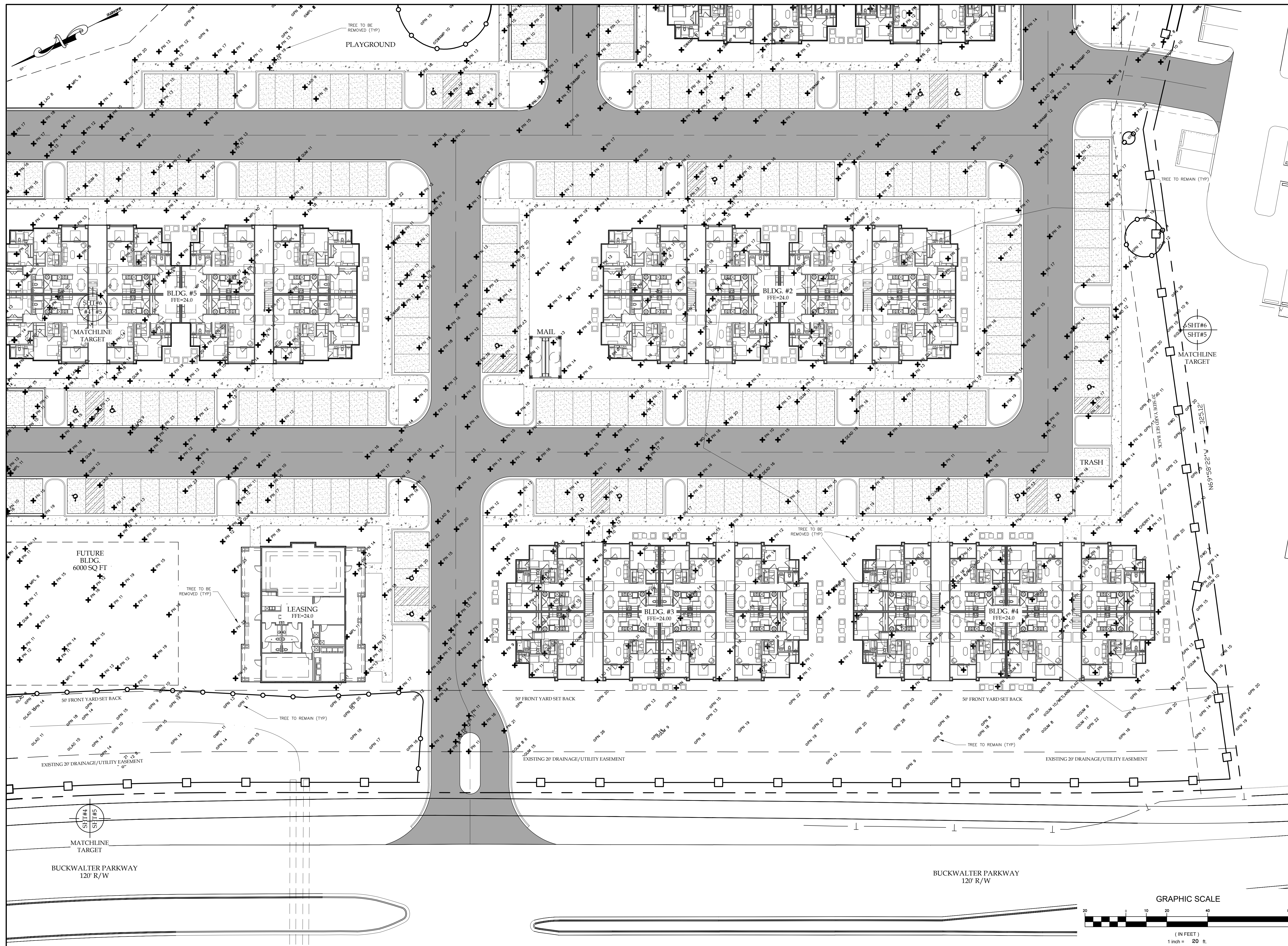
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TREE REMOVAL & PROTECTION PLAN



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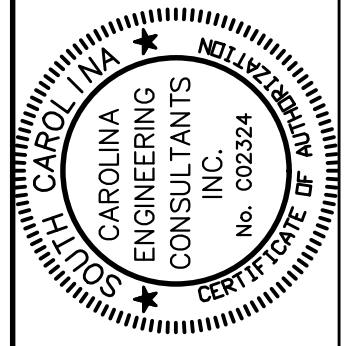
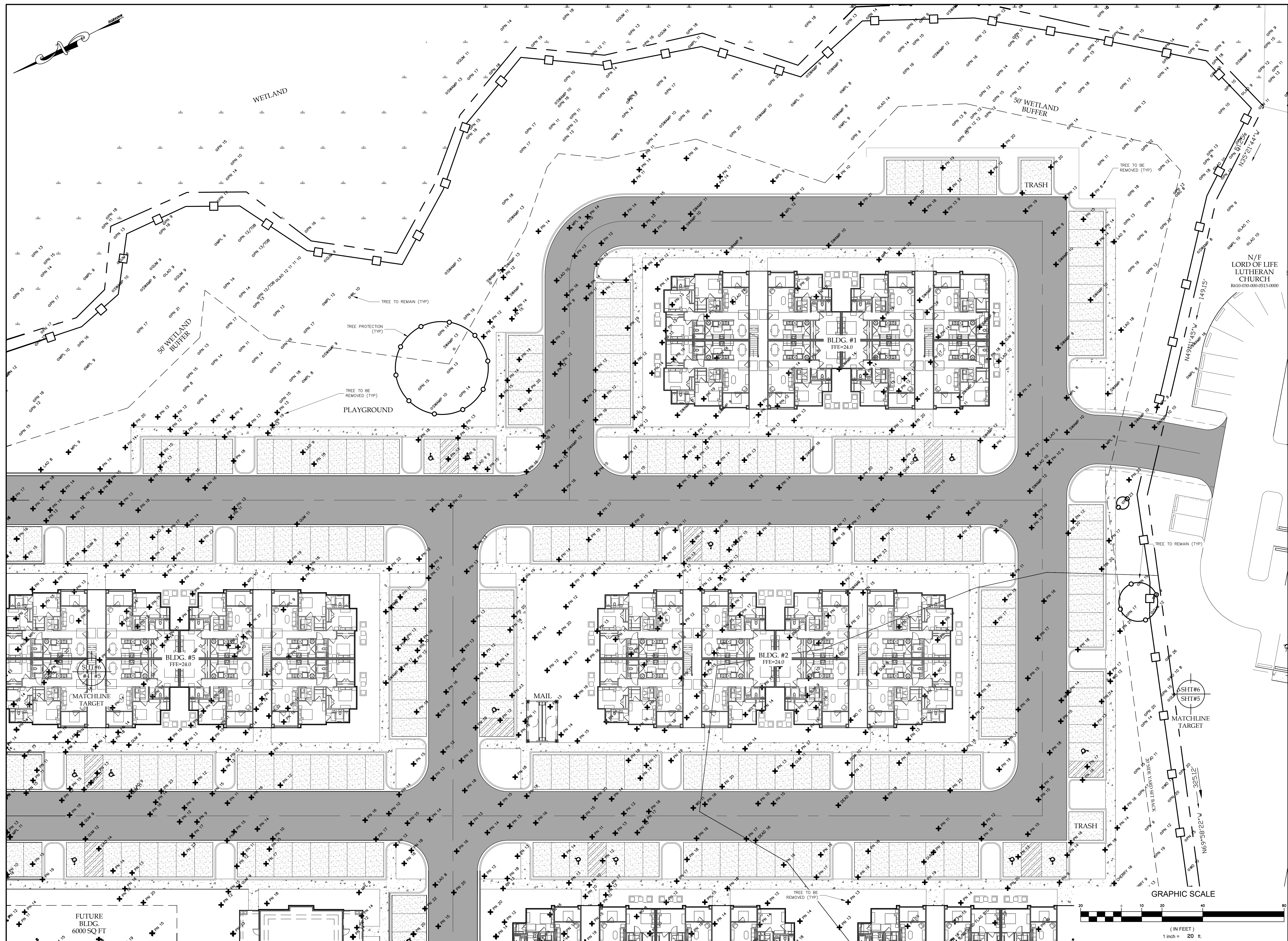
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TREE REMOVAL & PROTECTION PLAN



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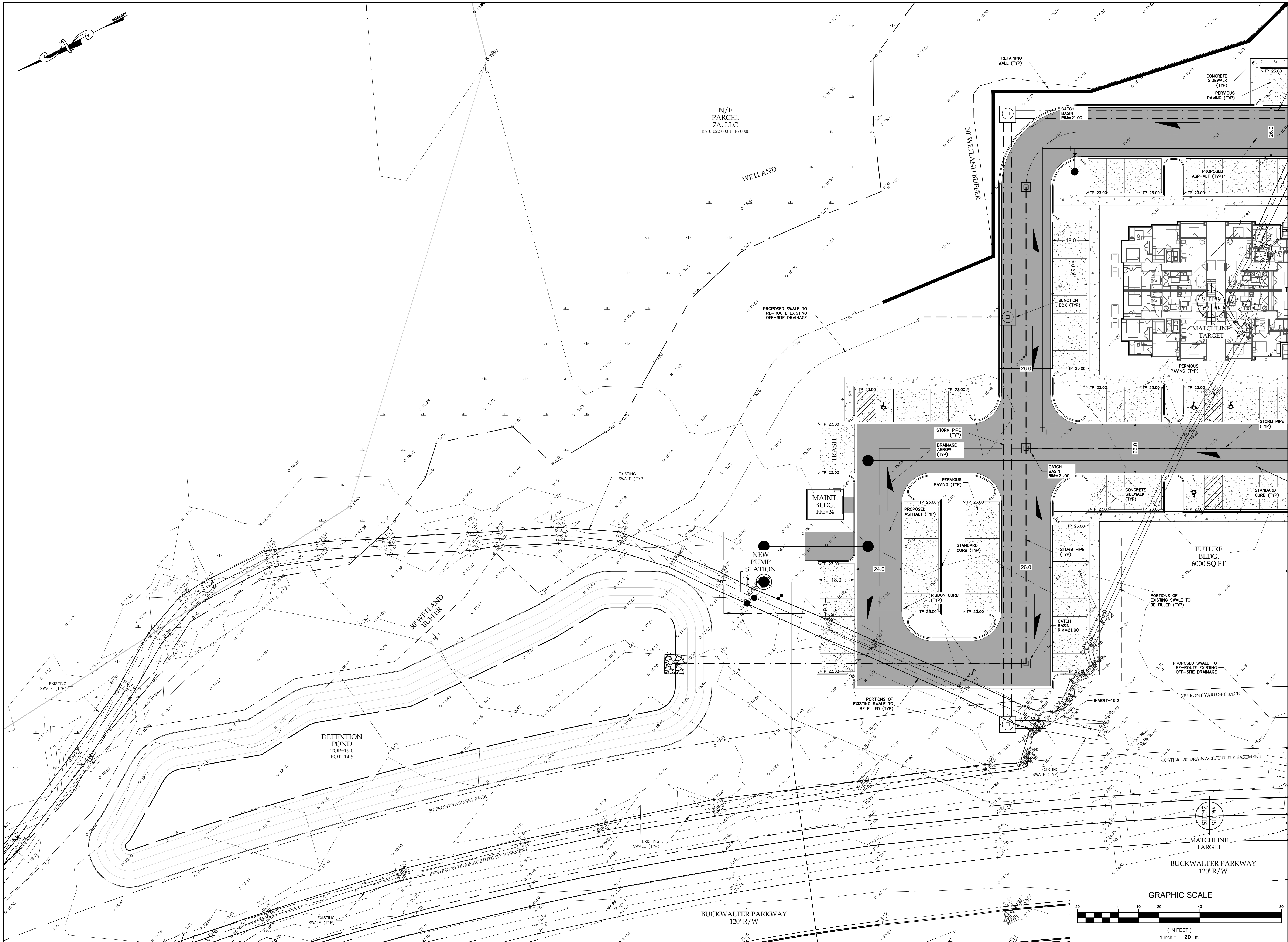
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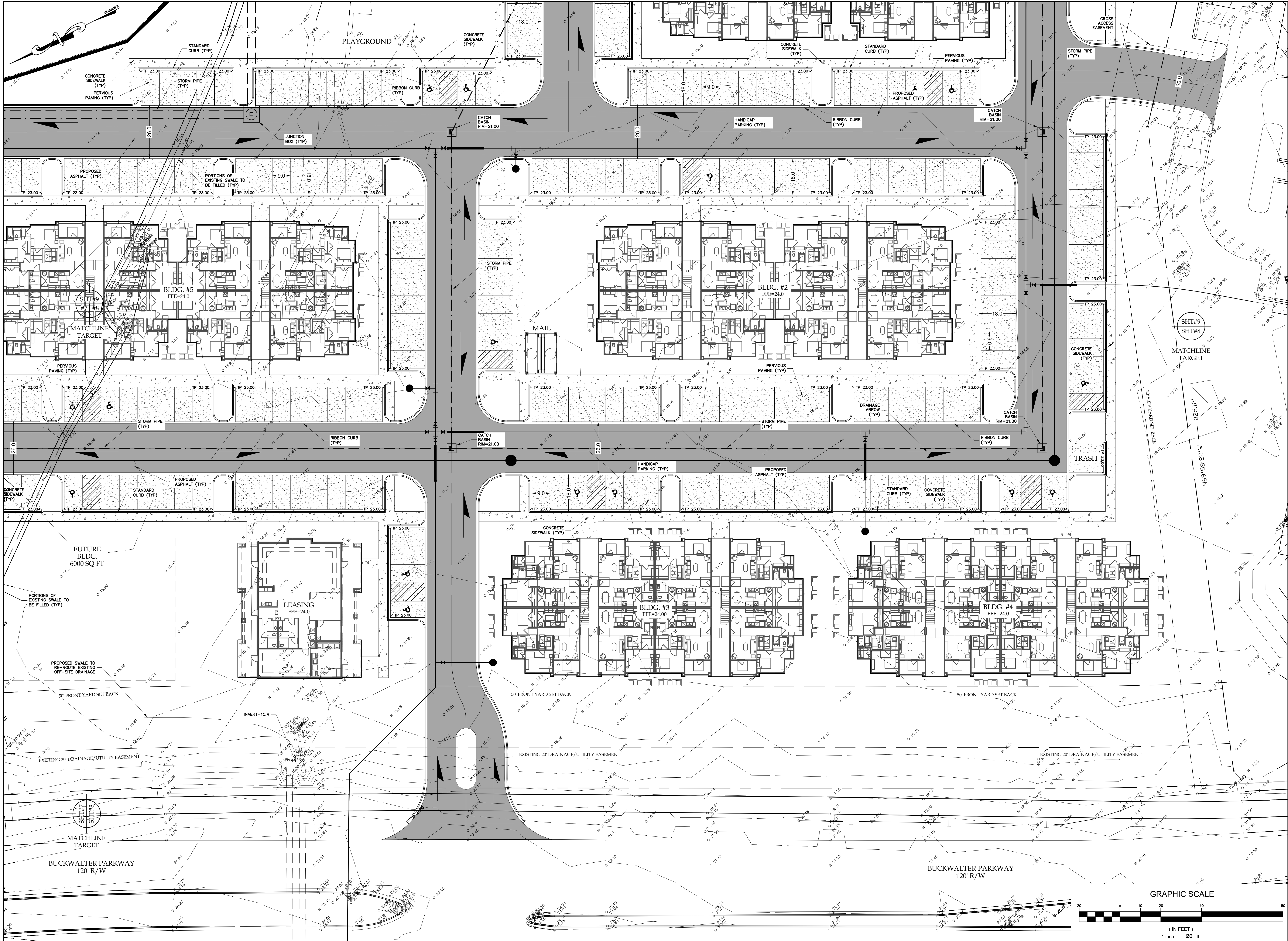
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PAVING, GRADING,
& DRAINAGE PLAN

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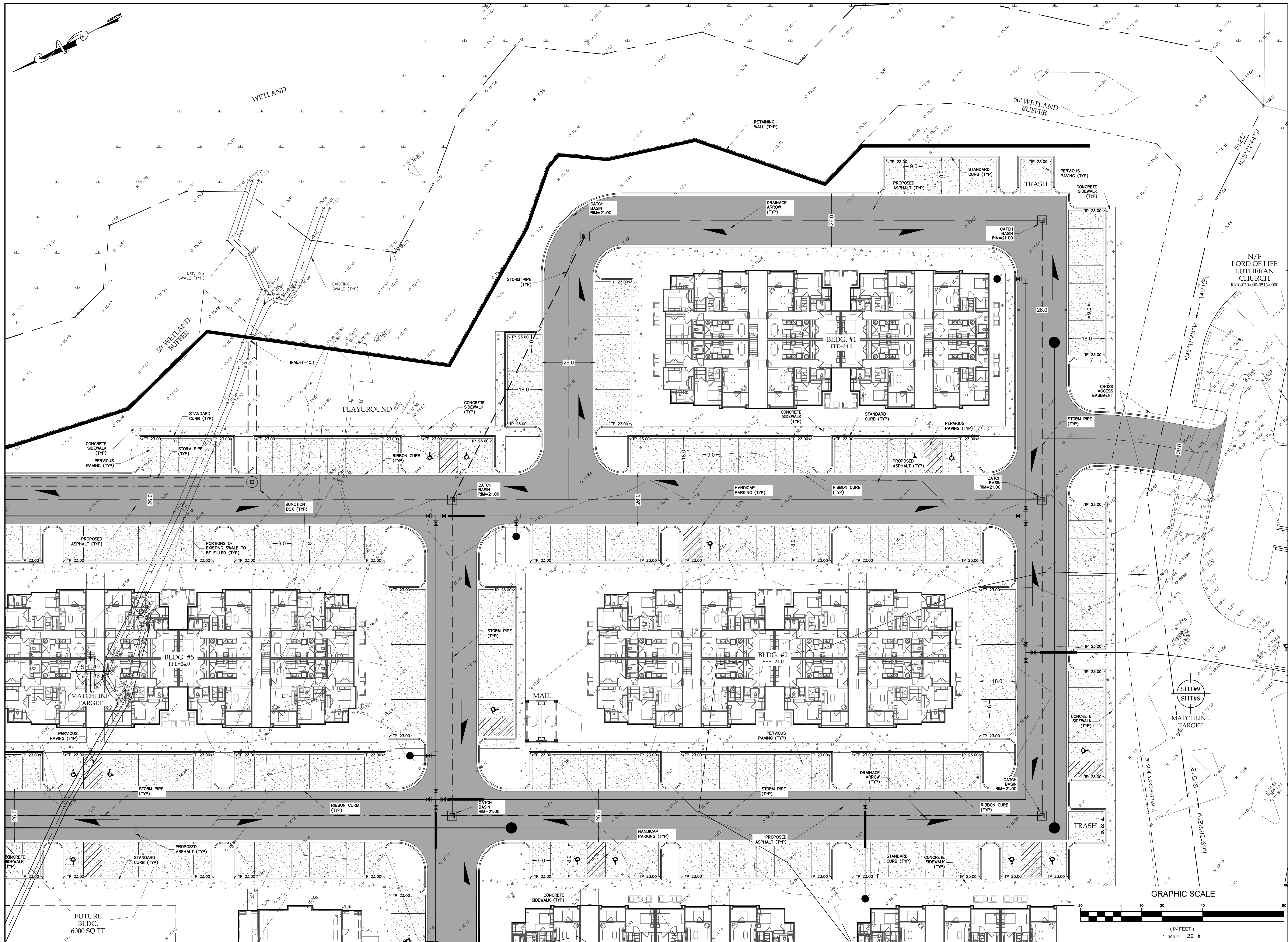
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& DRAINAGE PLAN

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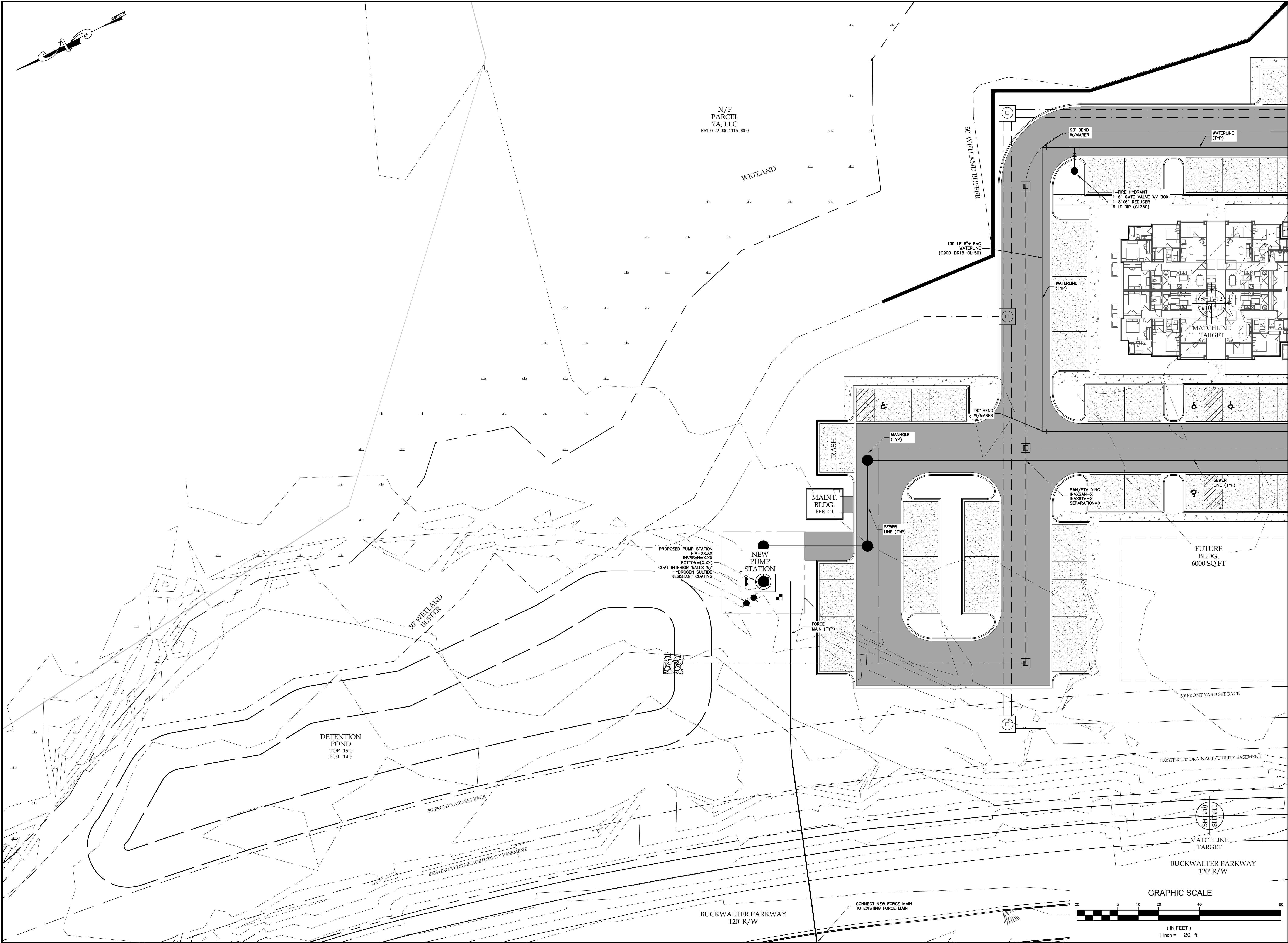
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843/322-0556 (FAX)
WWW.CAROLINAENGINEERING.COM
PO BOX 294
BEAUFORT, SC 29901

PROJECT:	2567
DATE:	01/02/24
REVISED:	07/30/25
DRAWN BY:	BJS
ENGINEER:	JPA
H-DATUM:	NAD 83
V-DATUM:	NAVD 88
SCALE:	1"=20'

PAVING, GRADING,
& DRAINAGE PLAN

9
OF 12



CAROLINA
ENGINEERING
CONSULTANTS
INC.
No. 002324
CERTIFICATE OF QUALITY

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ENGINEERING
CONSULTANTS
INC.
No. 002324
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PLAN REVISIONS		DATE
NO.	DESCRIPTION	
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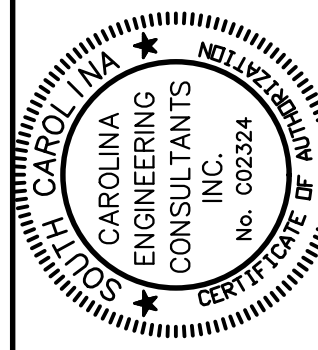
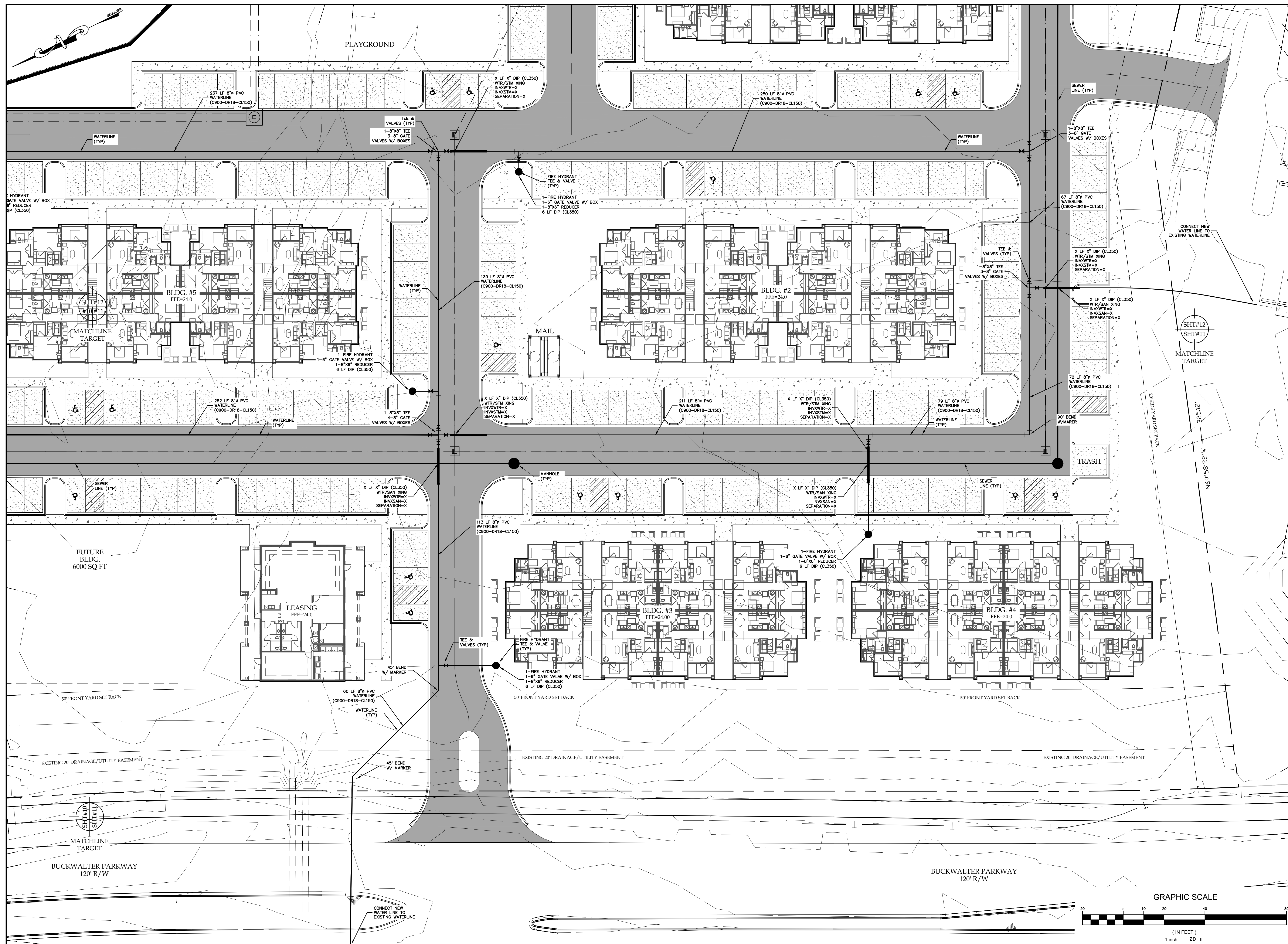
LIVEWELL TERRACE
BUCKWALTER PARKWAY
BEAUFORT COUNTY, SC

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PROJECT:	2567
DATE:	01/02/24
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DRAWN BY:	BJ5
ENGINEER:	JPA
H-DATUM:	NAD 83
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SCALE:	1"=20'

WATER & SANITARY
SEWER PLAN

10
OF 12



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PLAN REVISIONS

NO.	DESCRIPTION	DATE
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LIVEWELL TERRACE
BUCKWALTER PARKWAY
BEAUFORT COUNTY, SC

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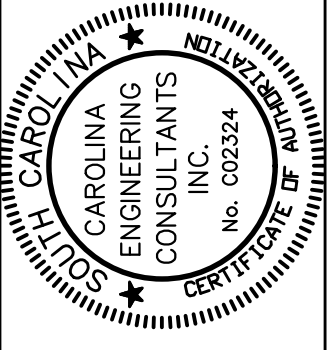
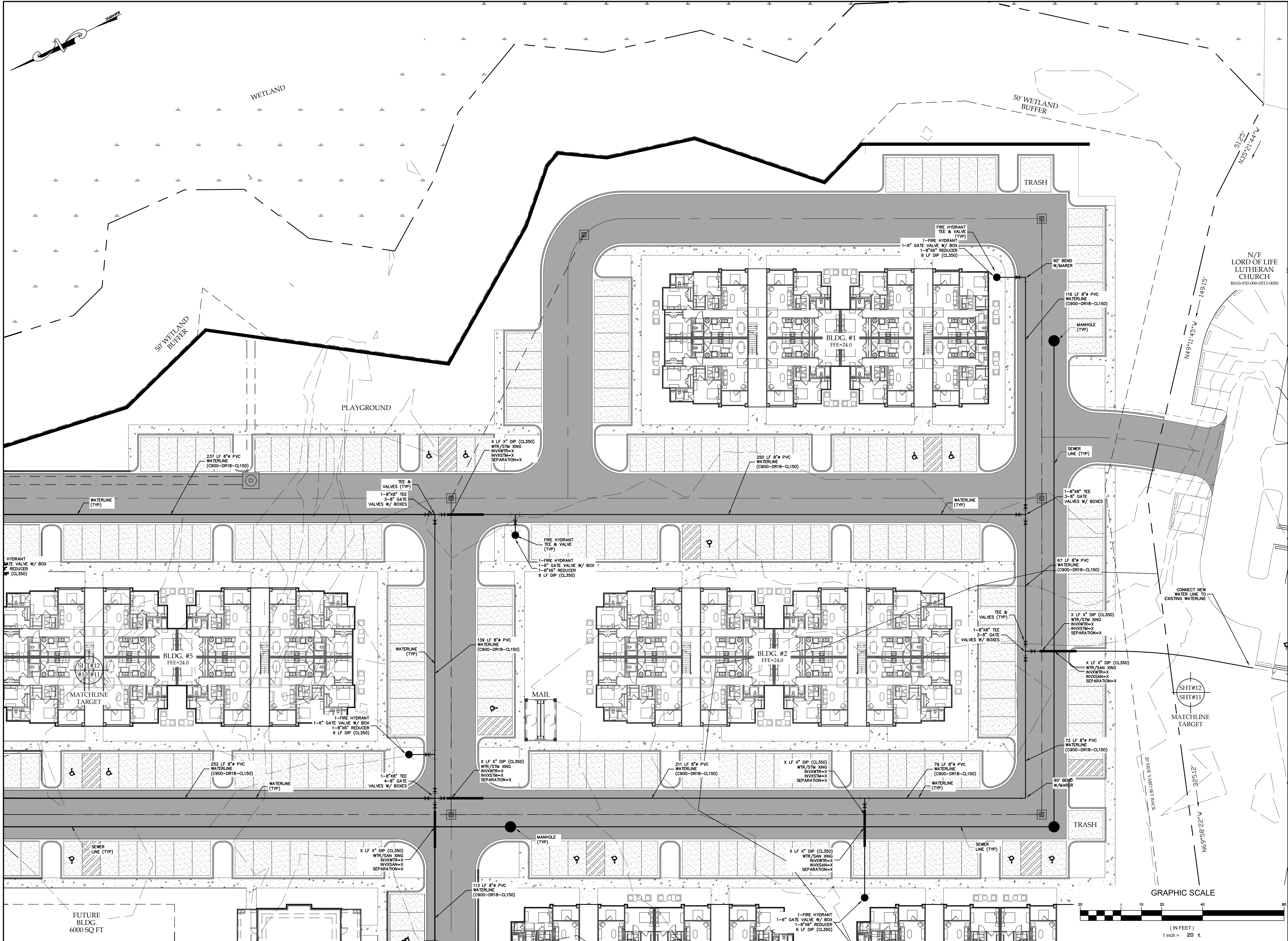
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**WATER & SANITARY
SEWER PLAN**



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