Title Block

LWE
LATHAM-WALTERS ENGINEERING, INC.
N.C. CORP. LIC. C-1815
16507-A NORTHCROSS DRIVE
HUNTERSVILLE, N.C. 28078
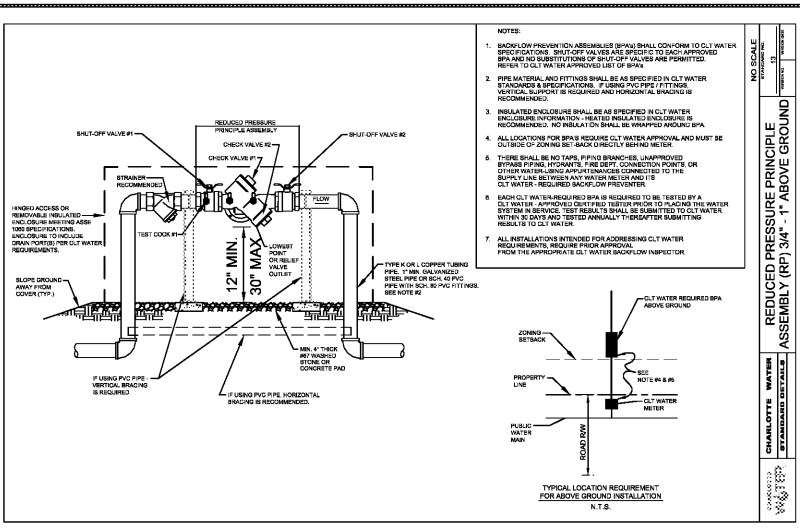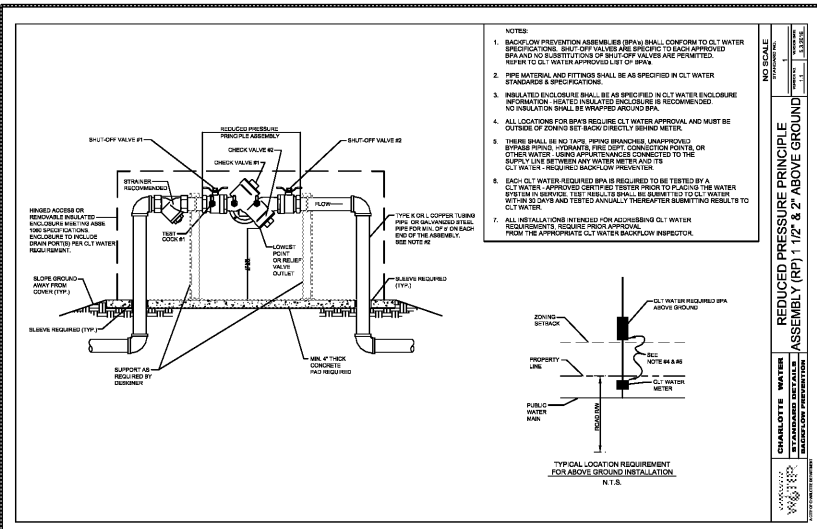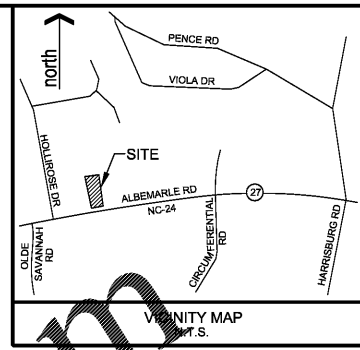PHONE: (704) 895-8484
FAX: (704) 237-4362

JULY 7, 2020
DATE

ALBEMARLE ROAD PARTNERS, LLC
568 JETTON STREET
SUITE 200
DAVIDSON, NC 28036
PH: 704-895-2084
watson@piedmontlanddevelopment.com

ALBEMARLE ROAD SHOPS
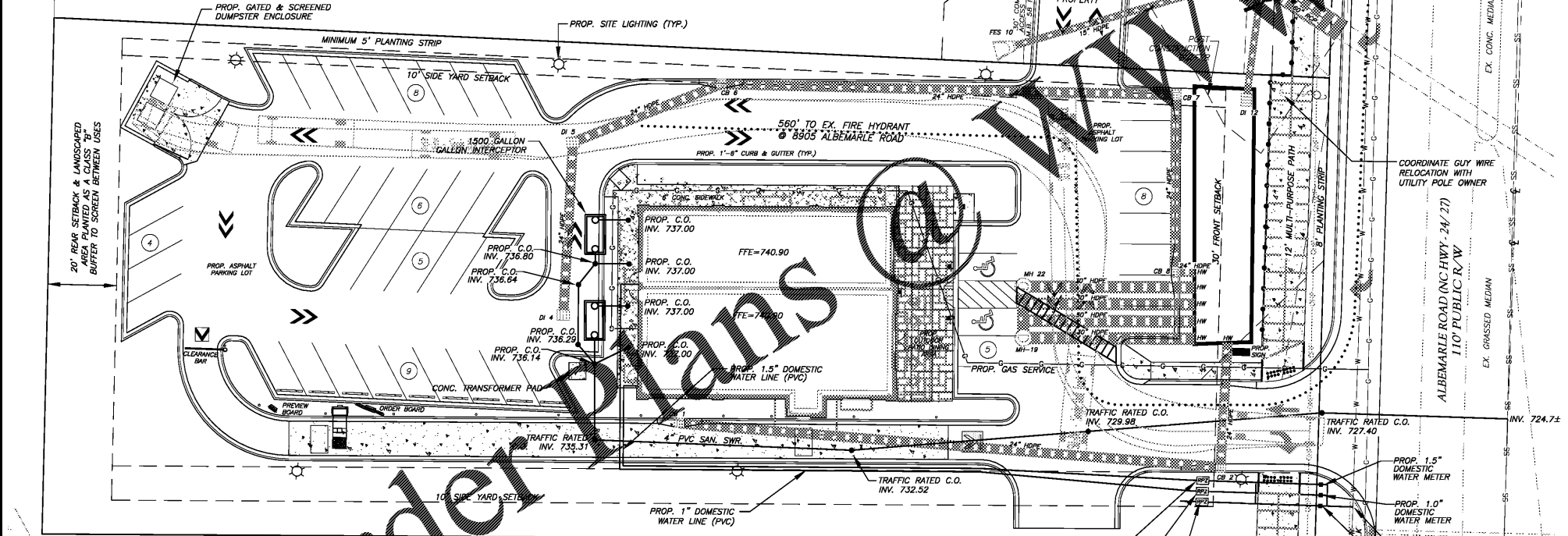8837 ALBEMARLE ROAD CHARLOTTE, NC 28227
UTILITY PLAN (BACKFLOW)

REVISIONS

PROJECT NO.: 2019.13
SCALE: 1" = 20'
DRAWN BY: PAB
CHECKED BY: MSL

SHEET NO:
C7.0

1913-UP (BACKFLOW).dwg

Vicinity Map

VICINITY MAP
N.T.S.
north
PENCE RD
VIOLA DR
SITE
ALBEMARLE RD
NC-24
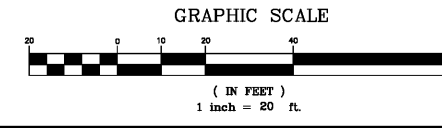OLDE SAVANNAH RD
HOLLYRIDGE RD
HARRISBURG RD

Utility Notes

UTILITY NOTES:
1. ALL LATERALS SHALL HAVE NO LESS THAN 1.04% SLOPE.
2. ALL WATER & SEWER INSTALLATION SHALL BE IN CONFORMANCE WITH THE CLTWATER STANDARD DETAILS & SPECIFICATIONS AND THE NORTH CAROLINA BUILDING CODES.
3. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.
4. ALL CLEANOUTS IN PAVEMENT SHALL BE TRAFFIC RATED.
5. NO PERMANENT INSULATION SHALL BE INSTALLED ON THE BACKFLOW PREVENTER ASSEMBLY. CLTWATER RECOMMENDS THAT HEAT BE PROVIDED FOR ALL ABOVE-GROUND DOMESTIC AND COMBINATION SERVICE BP ENCLOSURES TO PREVENT FREEZE DAMAGE.

NOTE: ALL UTILITIES SHALL BE UNDERGROUND

NOTE:
THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CLTWATER REQUIRED BACKFLOW PREVENTER.

Notes

1. CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE APPLICANT.
2. TREES WITHIN THE STREET RIGHT OF WAY ARE PROTECTED BY LAW. A PERMIT IS REQUIRED FROM THE CITY ARBORIST AT (704) 336-5753 PRIOR TO THE REMOVAL OF ANY RIGHT OF WAY TREES. ALL TREES OVER 8" IN DIAMETER AS MEASURED 4.5' ABOVE GROUND AND LOCATED WITHIN THE SETBACK ARE PROTECTED BY LAW. CONTACT LAND DEVELOPMENT AT (704) 336-6692 FOR REQUIRED PERMITS.
3. BEFORE YOU DIG STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. IT'S THE LAW.

PROP. 1.5" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (FOR DOMESTIC) INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CLTWATER REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CLTWATER REQUIREMENTS. SEE DETAIL STD.#1 ON C7.0 (THIS SHEET). EACH CLTWATER-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CLTWATER-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

PROP. 1" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (FOR DOMESTIC) INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CLTWATER REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER CLTWATER REQUIREMENTS. SEE DETAIL STD.#13 ON C7.0 (THIS SHEET). EACH CLTWATER-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CLTWATER-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

PROP. 3/4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (FOR IRRIGATION) INSTALLED ABOVE-GROUND WITHIN INSULATED ENCLOSURE PER CLTWATER REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER C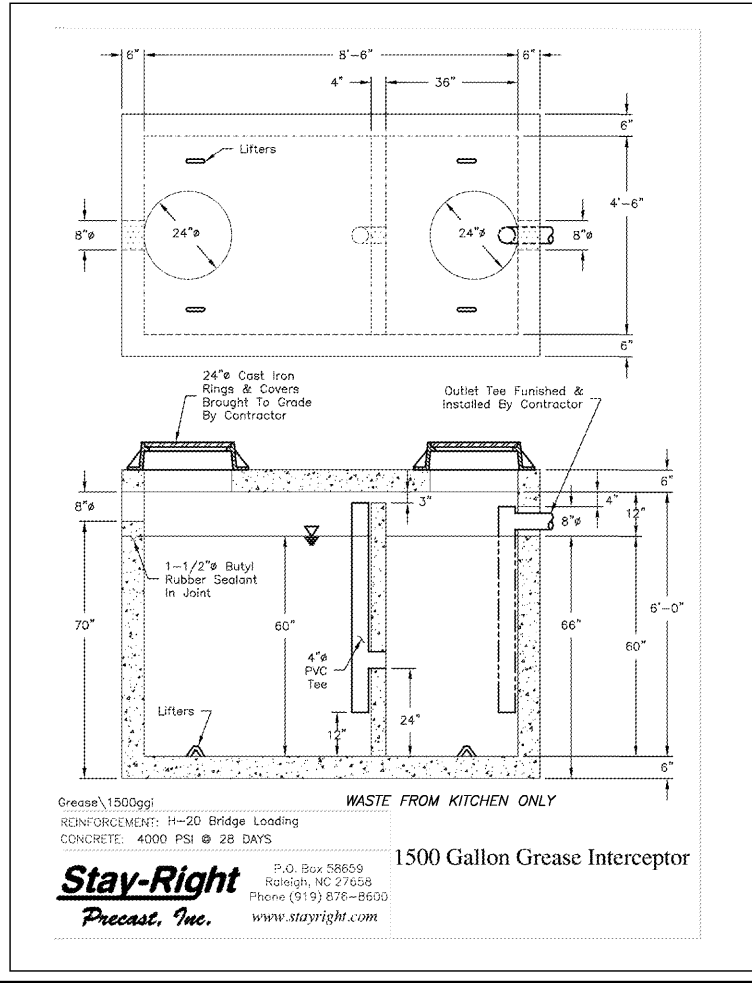LTWATER REQUIREMENTS. SEE DETAIL STD.#13 ON C7.0 (THIS SHEET). EACH CLTWATER-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CLTWATER-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

NOTE:
1). CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO BEGINNING CONSTRUCTION.
2). CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAGMEN, ETC) AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
3). ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
4). SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.

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

Site Plan Callouts

EXISTING O'Reilly AUTO PARTS

PARCEL ID: 109-102-08
NADO NNN ORE (DNA-NC) LP
C/D NORTH AMERICAN DEVELOPMENT GROUP
EX. LAND USE: COMMERCIAL
EX. ZONING: B-1 (CG)

PARCEL ID: 109-102-03
BENNY R. & CAROL S. NORWOOD
EX. LAND USE: SINGLE FAMILY RESIDENTIAL
EX. ZONING: R-3

PROP. GATED & SCREENED DUMPSTER ENCLOSURE
PROP. SITE LIGHTING (TYP.)
MINIMUM 5' PLANTING STRIP
10' SIDE YARD SETBACK
1500 GALLON INTERCEPTOR
PROP. ASPHALT PARKING LOT
CONC. TRANSFORMER PAD
CLEARANCE BAR
20' REAR SETBACK & LANDSCAPED AREA PLANTING 27' BUFFER TO SCREEN BETWEEN USES

FFE=740.90
FFE=740.90

PROP. C.O. INV. 737.00
PROP. C.O. INV. 736.80
PROP. C.O. INV. 736.64
PROP. C.O. INV. 736.29
PROP. C.O. INV. 736.14
PROP. 1.5" DOMESTIC WATER LINE (PVC)
TRAFFIC RATED C.O. INV. 735.31
4" PVC SAN. SWR.
PROP. 1" DOMESTIC WATER LINE (PVC)
TRAFFIC RATED C.O. INV. 732.52
TRAFFIC RATED C.O. INV. 729.98
TRAFFIC RATED C.O. INV. 727.40
INV. 724.7±
PROP. GAS SERVICE
PROP. 1.5" DOMESTIC WATER METER
PROP. 1.0" DOMESTIC WATER METER
1.5" WATER TAP
PROP. 3/4" IRRIGATION WATER METER

560' TO EX. FIRE HYDRANT @ 8905 ALBEMARLE ROAD
PROP. 1'-6" CURB & GUTTER (TYP.)
6' CONC. SIDEWALK
26' DRIVEWAY CONNECTION TO ADJACENT PROPERTY

ADJUST CURB LOCATION AS REQUIRED TO MISS MANHOLE RIM
COORDINATE GUY WIRE RELOCATION WITH UTILITY POLE OWNER

ALBEMARLE ROAD (NC HWY-24/27)
110 PUBLIC R/W
EX. GRASSED MEDIAN

12' MULTI-PURPOSE PATH
8' PLANTING STRIP
30' FRONT SETBACK

Grease Interceptor Detail

24"ø CAST IRON RINGS & COVERS BROUGHT TO GRADE BY CONTRACTOR
OUTLET TEE FURNISHED & INSTALLED BY CONTRACTOR
1-1/2"ø BUTYL RUBBER SEALANT IN JOINT
4"ø PVC TEE
LIFTERS

WASTE FROM KITCHEN ONLY

Grease 1500gal
REINFORCEMENT: H-20 BRIDGE LOADING
CONCRETE: 4000 PSI @ 28 DAYS

STAY-RIGHT Precast, Inc.
P.O. Box 58659
Raleigh, NC 27658
Phone (919) 876-8600
www.stayright.com

1500 Gallon Grease Interceptor

Graphic Scale

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

Backflow Detail Notes (upper left)

NOTES:
1. BACKFLOW PREVENTION ASSEMBLIES (BPAs) SHALL CONFORM TO CLT WATER SPECIFICATIONS. SHUT-OFF VALVES ARE SPECIFIC TO EACH APPROVED BPA AND NO SUBSTITUTIONS OF SHUT-OFF VALVES ARE PERMITTED. REFER TO CLT WATER APPROVED LIST OF BPA's.
2. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CLT WATER STANDARDS & SPECIFICATIONS.
3. INSULATED ENCLOSURE SHALL BE AS SPECIFIED IN CLT WATER ENCLOSURE INFORMATION. HEATED INSULATED ENCLOSURE IS RECOMMENDED. NO INSULATION SHALL BE WRAPPED AROUND BPA.
4. ALL LOCATIONS FOR BPA's REQUIRE CLT WATER APPROVAL AND MUST BE OUTSIDE OF ZONING SET-BACK DIRECTLY BEHIND METER.
5. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CLT WATER-REQUIRED BACKFLOW PREVENTER.

REDUCED PRESSURE PRINCIPLE (RP) 1 1/2" & 2" ABOVE GROUND
TYPICAL LOCATION REQUIREMENT FOR ABOVE GROUND INSTALLATION
N.T.S.

REDUCED PRESSURE PRINCIPLE (RP) 3/4" - 1" ABOVE GROUND
TYPICAL LOCATION REQUIREMENT FOR ABOVE GROUND INSTALLATION
N.T.B.