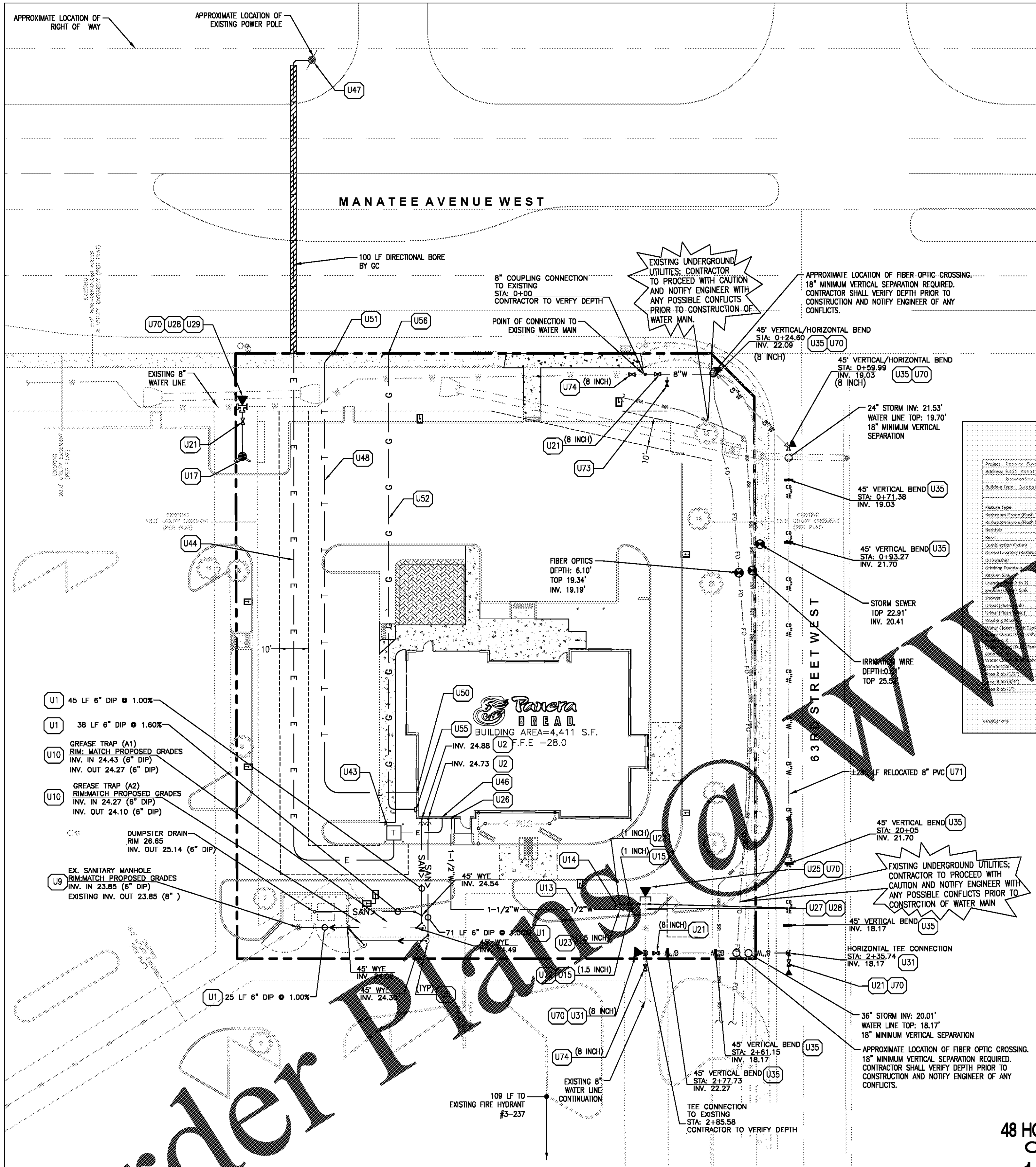
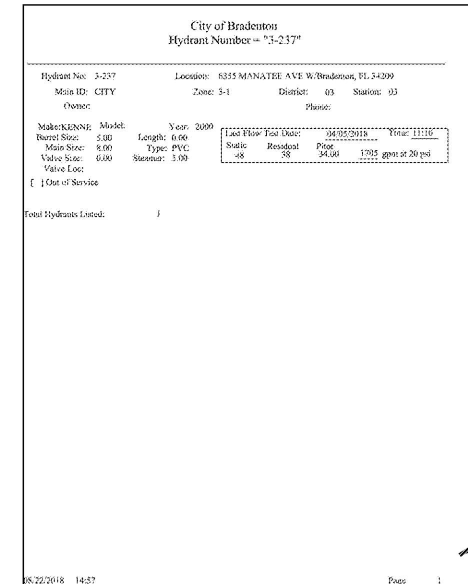




City of Bradenton
Hydrant Number = "3-237"

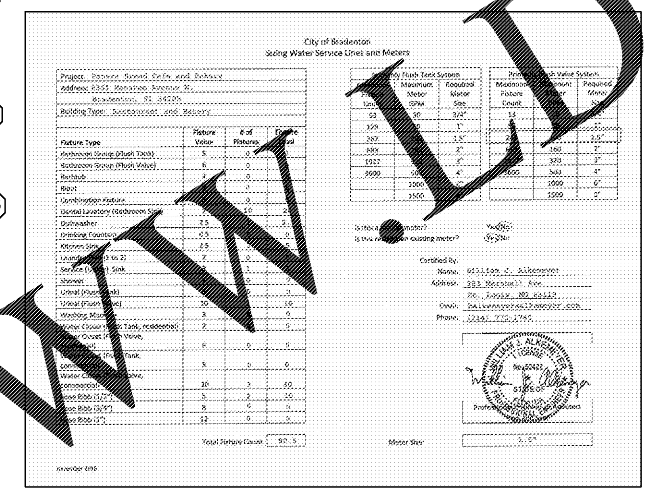
Hydrant No: 3-237 Location: 6355 MANATEE AVE W/Bradenton, FL 34209
Main ID: CITY Zone: 3-1 District: 03 Station: 03
Owner: Phone:

Make:KENNE Model: Year: 2000
Barrel Size: 5.00 Length: 0.00
Main Size: 8.00 Type: PVC
Valve Size: 0.00 Steamer: 5.00
Valve Loc:
[ ] Out of Service

Last Flow Test Date: 04/05/2018 Time: 11:10
Static 48 Residual 38 Pitot 34.00 1705 gpm at 20 psi

Total Hydrants Listed: 1

08/22/2018 14:57 Page 1



City of Bradenton
Sizing Water Service Lines and Meters

Project: Panera Bread Cafe and Bakery
Address: 6351 Manatee Avenue W.
Bradenton, FL 34209
Building Type: Restaurant and Bakery

Certified By:
Name: William J. Alkemeyer
Address: 383 Marshall Ave.
St. Louis, MO 63119

Total Fixture Count: 93.5
Meter Size: 1.5"

LEGEND

— — — —	BOUNDARY LINE
—— SAN> ——	SANITARY SEWER SERVICE
—— E ——	UNDERGROUND ELECTRIC SERVICE
—— T ——	UNDERGROUND TELEPHONE SERVICE
—— G ——	UNDERGROUND GAS SERVICE
— 2"W — 2"W —	2 INCH WATER SERVICE
—1"W —1"W —	1 INCH WATER SERVICE
— 8"W —— 8"W —	8 INCH WATER MAIN
⊗	SUE TEST PIT LOCATION

GENERAL UTILITY NOTES:

1. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ENSURE NO CONFLICTS EXIST WITH PROPOSED IMPROVEMENTS. NOTIFY ENGINEER IMMEDIATELY IF UTILITIES ARE LOCATED DIFFERENTLY THAN SHOWN. THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY IN ORDER TO RELOCATE IF NEEDED IN CONFORMANCE WITH THEIR GUIDELINES.
2. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO THE REMOVAL OF INDICATED UTILITIES ON SITE (SEE DEMOLITION PLAN). CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS REQUIRED FOR DEMOLITION AND HAUL OFF FROM THE APPROPRIATE AUTHORITIES.
3. AUTHORIZATION MUST BE OBTAINED FROM THE CITY OF BRADENTON TO CONSTRUCT, ALTER OR MODIFY A WATER OR SEWER LINE. CONSTRUCTION OF WATER AND SEWER INFRASTRUCTURE WILL BE AUTHORIZED BY THE WATER SYSTEM UPON:
   - APPROVAL OF SUBMITTED PLANS
   - NOTIFICATION OF THE WATER SYSTEM AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION.
4. AT THE COMPLETION OF THE WATER AND/OR SEWER CONSTRUCTION AND PRIOR TO RECORDING THE FINAL PLAT, THE CONTRACTOR WILL FURNISH THE WATER SYSTEM INSPECTOR RECORD DRAWINGS OF THE PROJECT.
5. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE GAS COMPANY FOR THE CONSTRUCTION OF THE GAS LINE BETWEEN METER AND MAIN.
6. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE POWER COMPANY FOR THE CONSTRUCTION OF ELECTRICAL CONDUIT TO PROVIDE SERVICE TO THE TRANSFORMER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, PRIOR TO CONSTRUCTION, ALL EXISTING LOCATIONS AND INVERT ELEVATIONS OF SANITARY SEWERS, STORM DRAINAGE, AND WATER MAINS. IF ANY INVERT ELEVATION VARIES MORE THAN 0.1 FT. FROM RECORD ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT PROCEED UNTIL THE CONTRACTOR IS NOTIFIED BY THE ENGINEER.
8. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
9. COORDINATE WITH BUILDING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
10. ALL SEWERS TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING CLEANING OF ANY SILT OR DEBRIS ACCUMULATED IN STRUCTURES.
11. ALL SURPLUS EXCAVATED MATERIAL FROM THE TRENCH SHALL BE DISPOSED OFF THE SITE BY CONTRACTOR.
12. COORDINATE EXACT TRENCHING, ROUTING, AND POINT OF TERMINATION WITH ALL UTILITY COMPANIES.
13. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
14. WATER MAIN SHALL BE A MINIMUM OF 36 INCHES OF COVER.

CITY COORDINATION NOTE:

CONTRACTOR SHALL CONTACT TIM HOCHULI 941-932-9492 AT THE CITY OF BRADENTON TO COORDINATE ORDERING AND DELIVERY OF CITY FURNISHED MATERIALS. CONTRACTOR SHALL PROVIDE A LIST OF THE REQUIRED MATERIAL AND QUANTITIES AT PRE CONSTRUCTION MEETING.

GREASE TRAP CALCULATION

*S = NUMBER OF SEATS = 96 SEATS
GS = GALLONS OF WASTEWATER PER SEAT = 25
HR = NUMBER OF HOURS OPEN TO THE PUBLIC = 16
LF = LOAD FACTOR =0.75
12 = NUMBERS OF MONTHS IN A YEAR

GREASE TRAP = (96)X(25)X(16)X(0.75)/12 = 2,400 GALLONS

(2) 1,250 GALLON GREASE TRAPS REQUIRED.

* ONLY THE INTERIOR SEAT COUNT IS USED FOR THE GREASE TRAP SIZING AND CALCULATIONS SINCE CUSTOMERS UTILIZING OUTDOOR SEATING AT PANERA BREAD WOULD TYPICALLY USE DISPOSABLE DISHES AND UTENSILS AND NOT WASHABLE ONES.

48 HOURS BEFORE YOU DIG
CALL SUNSHINE
1-800-432-4770
IT'S THE LAW IN FLORIDA

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

UTILITY KEY NOTES

U1	SANITARY SEWER (SEE NOTE FOR TYPE, SIZE AND SLOPE)
U2	SANITARY SEWER POINT OF ENTRY (PER MEP PLANS)
U5	SANITARY SEWER CLEAN-OUT
U9	CONNECT TO EXISTING SANITARY SEWER MANHOLE. ALL CONNECTION SHALL BE MADE WITH A CORING MACHINE. A SEAL SHALL BE PLACED AROUND THE CORING HOLE WHERE THE PIPE ENTERS THE MANHOLE. (CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION)
U10	1250 GALLON GREASE TRAP (SEE CITY DETAIL SHEET C-7.1)
U13	DOMESTIC WATER LINE (SEE PLAN FOR AND SIZE)
U14	IRRIGATION WATER LINE (TYPE AND SIZE PER IRRIGATION PLAN)
U15	WATER METER (SEE PLAN FOR SIZE)
U17	FIRE HYDRANT WITH GATE VALVE (PER CITY DETAIL F-1)(CITY FURNISHED;CONTRACTOR INSTALLED).
U21	AMERICAN CAST IRON PIPE COMPANY 2500 SERIES DUCTILE IRON BODY RESILIENT WEDGE GATE VALVE WITH CAST IRON VALVE BOX (SEE PLAN FOR SIZE)(CITY FURNISHED, CONTRACTOR INSTALLED).
U23	REDUCED PRESSURE BACKFLOW PREVENTER
U25	8" DUCTILE IRON WATER LINE MJ CAP; (CITY FURNISHED, CONTRACTR INSTALLED).
U26	WATER LINE POINT OF ENTRY (PER MEP PLANS)
U27	WATER LINE POINT OF CONNECTION
U28	CONTRACTOR SHALL COORDINATE WITH WATER DEPARTMENT TO ENSURE THAT SERVICE IS NOT INTERRUPTED AT ANY TIME.
U29	8" X 6" SADDLE TEE FIRE PROTECTION CONNECTION. (CITY FURNISHED, CONTRACTOR INSTALLED).
U31	8" X 8" TEE CONNECTION (CITY FURNISHED/CONTRACTOR INSTALLED).
U35	M.J. 45° BEND (SEE PLAN FOR SIZE)(CITY FURNISHED/CONTRACTOR INSTALLED).
U36	M.J. 90° BEND (SEE PLAN FOR SIZE)(CITY FURNISHED/CONTRACTOR INSTALLED).
U43	PROPOSED ELECTRIC TRANSFORMER
U44	UNDERGROUND ELECTRIC SERVICE
U46	ELECTRIC SERVICE POINT OF ENTRY (PER MEP PLANS)
U47	ELECTRIC SERVICE POINT OF CONNECTION
U48	UNDERGROUND TELEPHONE SERVICE
U50	TELEPHONE SERVICE POINT OF ENTRY (PER MEP PLANS)
U51	TELEPHONE SERVICE POINT OF CONNECTION
U52	GAS SERVICE (PER LOCAL GAS COMPANY STANDARDS)
U55	GAS LINE POINT OF ENTRY (PER MEP PLANS)
U56	GAS LINE POINT OF CONNECTION
U70	THRUST BLOCK (SEE CITY DETAIL SHEET C-7.1)
U71	8" PVC C900 (DR-25) WITH INTEGRAL BELL JOINT SAND TRACER WIRE(CITY FURNISHED/CONTRACTOR INSTALLED).
U72	2" MANUAL FLUSH AND BATERLOGICAL TESTING POINT; CONVERT TO DOMESTIC SERVICE TAP AFTER ACCEPTANCE OF WATERMAIN BY CITY(CITY FURNISHED/CONTRACTOR INSTALLED).
U73	1" CLORINE INJECTION POINT CAP & ABANDONED AFTER ACCEPTANCE OF WATERMAIN BY CITY (CITY FURNISHED/CONTRACTOR INSTALLED).
U74	INSERTION VALVE WITH CAST IRON VAVE BOX, ROMAC QUICK VALVE OR OTHER CITY APPROVED EQUAL (CITY FURNISHED/CONTRACTOR INSTALLED).

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Atlanta, GA 30309
t: 404 601 4000 f: 404 601 3980

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
08-31-2018	INITIAL PERMIT SET
10-25-2018	CITY COMMENTS
11-05-2018	CITY COMMENTS

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
JOHN NOURZAD
PROJECT MANAGER
WILLIAM LOTZ
QUALITY CONTROL
CHARLES J. BEADLES
DRAWN BY
TREVOR ANDREY

PROJECT
PANERA BREAD

ADDRESS
BRADENTON FLORIDA
6351 MANATEE AVENUE WEST

CLIENT
Panera BREAD.

PROJECT NUMBER
201807580

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C-5.0

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