

NOTE:
 1. PIPE SIZE FOR DROP TO EQUAL FLOW SEWER PIPE SIZE.
 2. FITTINGS FOR DROPS SHALL BE C-900 OR SCHEDULE 80 PVC.
 3. SAW-CUT OR DRILL ALL HOLES FOR PIPE AND BOLTS.
 4. DRY MANHOLE MANDATORY WHEN DIFFERENTIAL BETWEEN INVERTS IS GREATER THAN 3".
 5. TRANSITION TO C-900 PVC OR SCHEDULE 80 PVC FOR INSIDE FITTINGS SHALL BE MADE OUTSIDE THE MANHOLE (NO FERRULE COUPLING ALLOWED).
 6. MANHOLE SHALL BE COATED WITH AT LEAST 90 MILS (DRY SURFACE) EPOXY SEALER PRIME AND FINISH COATING. COATING MATERIAL SHALL BE PRE-APPROVED BY COUNTY PRIOR TO INSTALLATION.

INSIDE DROP MANHOLE
NOT TO SCALE

Drawn By:	Name:	Date:
Checked By:		
Approved By:		
Scale:		
Rev:	Description:	Date:

JOHNSTON COUNTY
Department of Public Utilities
P.O. Box 2283
Spartanburg, NC 27377

SANITARY SEWER
STANDARD DETAIL
Inside Drop Manhole

PAGE **31**

STANDARD MANHOLE FRAME & COVER
NOT TO SCALE

NOTE: CONCRETE ENCASUREMENT SHALL ONLY BE USED IN AREAS WHERE COVER IS TO BE FINISHED WITH PAVEMENT OR CONCRETE. CONCRETE ENCASUREMENT SHALL NOT BE USED IN NON-TRAFFIC AREAS AND ABOVE GRADE INSTALLATIONS. MANHOLES IN STREETS TO HAVE NO HOLES/JOBS.

Drawn By:	Name:	Date:
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Approved By:		
Scale:		
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Spartanburg, NC 27377

SANITARY SEWER
STANDARD DETAIL
Standard Manhole Frame & Cover

PAGE **27**

500 GALLON OIL & WATER SEPARATOR

ENGINEERING DATA:
 Model: GCP-500OWS/TR
 Date: 7/21/2015
 Location: Hooker, LA 70744
 Phone: (225) 567-2790 Fax: (225) 567-3089
 www.gaineyproducts.com

APPROVED FOR PRODUCTION: [Signature]

SPECIFICATIONS:
 CONCRETE: Class 4 concrete with design strength of 4000 psi. 20 days cure to 100% strength. Minimum of 4" thickness of floor and 6" thickness of wall. Rebar on each side.
 REINFORCEMENT: #4 bars spaced at 12" on center. 12" diameter bars at 4" intervals.
 C.I. CASTING: Cast in place. 12" diameter bars at 4" intervals.

NOTE:
 1. MIN. OF 4 CU. FT. STONE (MORE IF REQ'D).
 2. CONC. THRUST BLOCK TO HAVE MIN. OF 6 SQ. FT. BEARING ON SOLID BANK (MORE IF REQ'D).
 3. DRAIN HOLES AND FLANGES SHALL BE CLEAR OF CONC.
 4. FIRE HYDRANT BARREL SHALL BE PLUMB.
 5. ALL MATERIALS USED IN THE POTABLE WATER SYSTEM MUST BE NSF61 AND NSF372 CERTIFIED AND MEET THE LATEST FEDERAL SAFE DRINKING WATER ACT REQUIREMENTS.

FIRE HYDRANT ASSEMBLY
NOT TO SCALE

****FIRE HYDRANTS INSTALLED ON EXISTING WATER MAINS, MUST BE INSTALLED USING A 6"x8" TEE CUT INTO THE EXISTING WATER MAIN. FIRE HYDRANTS INSTALLED ON EXISTING WATER MAINS LARGER THAN 12" CAN BE INSTALLED USING A TAPPING SLEEVE AND VALVE ON THE EXISTING WATER MAIN.**

Drawn By:	Name:	Date:
Checked By:		
Approved By:		
Scale:		
Rev:	Description:	Date:

JOHNSTON COUNTY
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Spartanburg, NC 27377

WATER
STANDARD DETAIL
Fire Hydrant Assembly

PAGE **4**

Fire Department Connection (FDC) - Free Standing Detail

LEGEND:
 1. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 2. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 3. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 4. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 5. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 6. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 7. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 8. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 9. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.
 10. 6" GALVANNEZED PIPE (BLACK) 20' MAX. TO BE INSTALLED AND WELDED.

FREE STANDING FIRE DEPARTMENT CONNECTION
NOT TO SCALE

DESIGNED BY:	DMH
DRAWN BY:	DMH
REVIEWED BY:	ECH
DATE:	10/22/19
REV:	

BCE
121 W. TRADE STREET, SUITE 1030
CHARLOTTE, NC 28202
www.bceinc.com
NC LICENSE #C-437

ROCK PROPERTIES, INC.
145 LINCOLN AVENUE, SUITE B
WINTER PARK, FL 32789

Firestone
COMPLETE AUTO CARE
N.C. HIGHWAY 42
GARNER, JOHNSTON COUNTY, NC 27539

UTILITY DETAILS

PROFESSIONAL ENGINEER
ERIC C. HAMPTON
SEAL 034426

FILE NUMBER: 6191-01
DATE: 07/24/19
C4-2