PIPE SIZE TO BE ONE NOMINAL DIAMETER LARGER THAN LARGEST INTO THE INFLUENT MANHOLE. SLOPE MUST BE SUFFICIENT TO PROVIDE SELF CLEANSING VELOCITY AT THE DESIGN PUMPING RATE.

INFLUENT LINE - SLOPE TO BE 2% OR LESS

INVERT ELEVATION OF INFLUENT LINE TO BE SET 0.5' ABOVE THE MIDPOINT OF THE PUMP MOTOR HOUSING

WETWELL LEVEL SETTINGS

- LWL: LOW WATER LEVEL
- OFF: ALL PUMPS OFF
- LEAD ON: LEAD PUMP ON
- LAG ON: LAG PUMP ON
- SHW: SCADA HIGH WATER LEVEL
- AVHW: AUDIO/VISUAL HIGH WATER LEVEL

TOP OF PUMP VOLUTE
MID POINT OF MOTOR HOUSING
SEE JWSC DESIGN STANDARDS
LEAD PUMP ON LEVEL PLUS 6" (+)
LAG PUMP ON LEVEL PLUS 6" (+)
SCADA HIGH WATER LEVEL PLUS 6"

(*) IN NO CASE SHALL THE SHW LEVEL BE HIGHER THAN THE INVERT OF THE LOWEST SEWER INTO THE INFLUENT MANHOLE.

NOT TO SCALE
NOTES:
1. PIPING, NIPPLES, PLUGS & BALL VALVES AND TAPPING SADDLES TO BE 316 SERIES STAINLESS STEEL OR AS NOTED.
2. 36" MINIMUM COVER ON HDPE TUBING TO WITHIN 12" OF PEDESTAL.
3. VALVE SHALL BE INSTALLED WITH A TWO-PIECE CAST IRON VALVE BOX, COVER WITH "SEWER" STAMPED ON IT, AND PRECAST CONCRETE MARKER. UNLESS VALVE IS LOCATED IN DITCH, IN WHICH CASE A MARKER LOCATING VALVE IS STILL REQUIRED.
4. LOCATION OF ARV PEDESTAL SHALL BE APPROVED BY JWSC AND GLYNN COUNTY PRIOR TO INSTALLATION.

SEWER AIR RELEASE VALVE PEDESTAL ASSEMBLY DETAIL

JWSC STANDARD DETAIL 4-4A

Date: JANUARY 2017
DOUBLE WALLED CENTURY SRTP HDPE BOX/MANHOLE OR EQUIVALENT. MUST BE APPROVED.

NOTE:
- THE ACCESS HATCH SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT PER JWSC STANDARDS.

ARV HDPE BOX/MANHOLE

JWSC STANDARD DETAIL 4-4B

Date: JANUARY 2017
NOTE:
THIS STILLING WELL DETAIL TO BE USED ONLY WHERE INDICATED AND WHERE TRANSDUCER IS USED IN LIEU OF FLOAT SWITCHES.
CAM LOCK WITH CAP

12” MAX.

3’ X 3’ X 6” THICK CONCRETE SLAB

SEE ALSO DETAILS 4-2 AND 4-3

TO PUMPING STATION DISCHARGE FORCemain

42”
NOTES:

1. THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE E/ONE PART NUMBER NB0184PXX, NC0193GXX OR A PREVIOUSLY APPROVED EQUAL.

2. THE BOX HOUSING THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE A RHINO MB-17 WITH TRAFFIC RATED LID MARKED SEWER OR PREVIOUSLY APPROVED EQUAL.

PUMPING SYSTEM TO BE A COMPLETELY FACTORY ASSEMBLED SIMPLEX GRINDER PUMPING STATION SPECIFICALLY DESIGNED FOR USE IN LOW PRESSURE SEWER SYSTEMS INCLUDING HOLDING TANK, ANTI-FLATATION COLLARS, MEDIUM TO HIGH HEAD GRINDER PUMP, WITH LEVEL CONTROL SYSTEM AND CONTROL PANEL. HIGH HEAD GRINDER PUMPS (FLOWS TO 28 GPM AND HEADS TO 200 FEET) MAY BE USED UNIVERSALLY THROUGHOUT THE SYSTEM. DEPENDING UPON THE LOCATION WITHIN THE SYSTEM, MEDIUM HEAD GRINDER PUMPS MAY BE USED AS A COST SAVING MEASURE BUT IN NO CASE SHALL THE MOTOR HORSEPOWER BE LESS THAN 1.0. PUMP MANUFACTURERS SPECIALIZING IN EQUIPMENT USED IN LOW PRESSURE SEWER SYSTEMS CAN PROVIDE THE NECESSARY DESIGN ASSISTANCE IN THE SELECTION OF A SUITABLE PUMP.
NOTE:
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PLAN VIEW

PRECAST CONCRETE COLLAR OR 18X18X8 FORMED & POURED COLLAR

VALVE BOX & FULLY PORTED BALL VALVE SIZED PER LPSS MAIN

PEA GRAVEL OR CRUSHED STONE BEDDING MIN. 6-INCH

GATE VALVE CRUSHED STONE BEDDING MIN. 6-INCH

SWEEP ELBOW

SECTION

NOT TO SCALE

TYPICAL TERMINAL FLUSH CONNECTION

JWSC STANDARD DETAIL 4-8A

Date: APRIL, 2017
EXISTING JWSC FORCE MAIN (3-INCHES OR LARGER)

FLOW

DIP/PVC

MJ REDUCER

NEW FORCE MAIN SIZE TO BE DETERMINED BY ENGINEER OF RECORD

FLOW

RESILIENT WEDGE GATE VALVE

SS FLANGED TAPPING SLEEVE

RIGHT-OF-WAY/ EASEMENT PRIVATE

RIGHT-OF-WAY/ EASEMENT PRIVATE

NOT TO SCALE

NOTE:
1. BRANCH VALVE AND NEW FORCE MAIN TO BE THE SAME SIZE AS EXISTING FORCE MAIN UPTO REDUCER.
2. DIRECTION OF BRANCH TO BE DETERMINED BY JWSC.
3. ALL VALVE BOX LIDS TO BE STAMPED SEWER.
4. RESILIENT WEDGE GATE VALVE MUST BE INSTALLED NO GREATER THAN +/- 12-INCHES FROM R/W OR EASEMENT LINE.

BRUNSWICK-GLYNN COUNTY
JOINT WATER & SEWER
COMMISSION

1703 Gloucester Street
Brunswick, Georgia 31520
Phone: (912) 261-7110
Fax: (912) 261-7178
Website: www.bgiwsc.org

FORCE MAIN CONNECTION TO EXISTING FORCENMAIN - 3" OR LARGER

JWSC STANDARD DETAIL 4-10

Date: SEPTEMBER 2019