3/4" WATER SERVICE

NOTE: CONTRACTOR SHALL PLACE WATER METER BOX IN NON-TRAFFIC AREA AT LOCATION SPECIFIED BY NORTH BRUNSWICK SANITARY DISTRICT.
BRASS NIPPLE 3/4" X 3" (TYPICAL) OR 1"

1" CURB STOP (TYP)

BRASS NIPPLE "T" X 1/8" (TYPICAL)

1" (TYP)

BRASS TEE (MALLEABLE) "F" X 1" TEE (TYPICAL)

FORD LONG DOUBLE GULFBOX
ITEM DG144-X43

WATER MAIN

EXISTING TAPS MADE OF P.V.C. AND CLASS 50 AND 51 DUCTILE IRON PIPE SHALL BE MADE USING A TAPPING SADDLE. NEW MAINS USE MECHANICAL TEE.

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<tr>
<th>METERED SERVICES</th>
<th>SIZE &quot;F&quot; (I.D.)</th>
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<td>1 1/2&quot;</td>
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<td>1&quot;</td>
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SEE DETAIL FOR STANDARD WATER SERVICE INSTALLATION

"F" GATE VALVE INSTALLED IN VALVE BOX AS CLOSE AS POSSIBLE TO MAIN

WATER MAIN

TAPPING VALVE WITH SLEEVE

GANG METER ASSEMBLY
NTS
SD 1-06

NORTH BRUNSWICK SANITARY DISTRICT
P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441

GANG METER ASSEMBLY

STANDARD DETAIL: SD 1-06
DATE: 01/01/08
Not To Scale
...
SERVICE CONNECTION INSTALLATION GUIDELINES

ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE SERVICE CONNECTION AS POSSIBLE WITH NO CONNECTIONS BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION ASSEMBLY

BRASS OR DIP

WATER METER CURB

FLOW

PROPERTY LINE

ASSEMBLY SHALL BE HORIZONTAL AND LEVEL UNLESS APPROVED FOR OTHER ORIENTATION(S)

ALL PIPING SHOULD BE HYDRAULICALLY CALCULATED BY WATER USER FOR ONSITE USAGE

SUPPORTS (AS NEEDED)

THrust blocks (AS NEEDED)

ONSITE THERMAL EXPANSION CONTROL (AS NEEDED)

SUPPORTS (AS NEEDED)

12" MIN.

BRASS OR DIP

ALL BACKFLOW DEVICES TO COMPLY WITH USC STANDARDS

BACKFLOW PREVENTION ASSEMBLIES ARE TO BE USED WITHIN THEIR RATED OPERATING CONDITIONS.

PRESSURE: BACKFLOW PREVENTION ASSEMBLIES TYPICALLY HAVE MAXIMUM WORKING WATER PRESSURES (MWWP) OF 150 PSI (1034 KPa) OR 175 PSI (1206 KPa). ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THIS PRESSURE, WHICH IS IDENTIFIED ON THE ASSEMBLY.

TEMPERATURE: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THEIR MAXIMUM WORKING WATER TEMPERATURE (MWT), WHICH IS IDENTIFIED ON THE ASSEMBLY.

RATE OF FLOW: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY UP TO THEIR RATED FLOW (i.e. GALLONS PER MINUTE - GPM; OR LITERS PER SECOND - L/S).

A FIBERGLASS HOT BOX ENCLOSURE ON A CONCRETE PAD IS REQUIRED.

RPZ - 2" & UP

NTS  SD 1–08

RPZ - 2"

NORTH BRUNSWICK SANITARY DISTRICT

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FAX (910) 371-6441

STANDARD DETAIL: SD 1-08
Not To Scale
DATE: 01/01/08
SERVICE CONNECTION
INSTALLATION GUIDELINES
ASSEMBLY SHALL BE LOCATED AS
CLOSE TO THE SERVICE CONNECTION
AS POSSIBLE WITH NO CONNECTIONS
BETWEEN THE WATER METER AND
THE BACKFLOW PREVENTION ASSEMBLY

ASSEMBLY SHALL BE
HORIZONTAL AND LEVEL
UNLESS APPROVED FOR
OTHER ORIENTATION(S)

ALL PIPING SHOULD BE
HYDRAULICALLY CALCULATED BY
WATER USER FOR ONSITE USAGE

BRASS
WATER METER
CURB

SUPPORTS
(AS NEEDED)

ONSITE THERMAL EXPANSION CONTROL
(AS NEEDED)

THRUST BLOCKS
(AS NEEDED)

SUPPORTS
(AS NEEDED)

THRUST BLOCKS
(AS NEEDED)

PROPERTY LINE

FLOW

12'-

ALL BACKFLOW DEVICES TO COMPLY WITH USC STANDARDS
BACKFLOW PREVENTION ASSEMBLIES ARE TO BE USED WITHIN THEIR RATED OPERATING CONDITIONS.
PRESSURE: BACKFLOW PREVENTION ASSEMBLIES TYPICALLY HAVE MAXIMUM WORKING WATER PRESSURES (MWWP)
OF 150 PSI (1034 KPa) OR 175 PSI (1206 KPa). ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT
THIS PRESSURE, WHICH IS IDENTIFIED ON THE ASSEMBLY.
TEMPERATURE: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT
THEIR MAXIMUM WORKING WATER TEMPERATURE (MWWT), WHICH IS IDENTIFIED ON THE ASSEMBLY.
RATE OF FLOW: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY UP TO
THEIR RATED FLOW (i.e. GALLONS PER MINUTE – GPM; OR LITERS PER SECOND –L/S).
A FIBERGLASS HOT BOX IS REQUIRED (CONCRETE PAD IS OPTIONAL).

RPZ - 3/4" OR 1"

NTS SD 1-10

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<td>FAX (910) 371-6441</td>
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RPZ - 3/4" OR 1"
2" BLOWOFF ASSEMBLY

D.I. OR PVC MAIN

CONCRETE THRUST COLLAR
WITH ANCHOR RING

3/4" THREADED BRIDLE
RODS (BITUMASTIC COATED)

CONCRETE PAD
OR BLOCKING

NOTE:
SEE SPECIFICATIONS FOR SUPPORT
OF VALVE & VALVE BOX IN SOILS
OTHER THAN LOOSE DRY SAND

2" BRASS NIPPLE

TAPPED MECHANICAL PLUG

MAIN LINE SIZE
GATE VALVE

CI VALVE BOX

2" MIN. 1/2" MAX.

2" MIN. 10" MAX.

6" MIN.

2" BRASS CAP & NIPPLE

2" BRASS

2" BRASS 90° BEND

2" BLOWOFF ASSEMBLY

NTS

SD 1–12

STANDARD DETAIL: SD 1-12

DATE: 01/01/08

NOT TO SCALE

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441
FOR USE IN PAVED AREAS

6" OR THICKNESS OF BASE MATERIAL

1 1/2" PAVEMENT

FOR USE IN UNPAVED AREAS

POURED IN PLACE CONCRETE COLLAR (3000 PSI MIX) OR APPROVED PRECAST COLLAR

VALVE BOX

VALVE BOX SHOULD NOT CONTACT VALVE OR MAIN. PLACE PEA GRAVEL UNDER BOX FOR SUPPORT.

GATE VALVE

GRAVEL

BLOCKING MIN. BEARING AREA=1 FT. SQ.

NO CONCRETE SHALL TOUCH BOLTS OR GLANDS. WRAP BOLTS & GLANDS W/PLASTIC.

NOTES:

1. 2" GATE VALVES SHALL F.I.P. THREADS. CONNECTION TO THE PIPE SHALL BE MADE WITH BRASS NIPPLE AND SCH. 40 PVC F.I.P.T. X SLIP ADAPTERS.

2. GATE VALVES GREATER THAN 2" SHALL BE MECHANICAL JOINT.

3. WIRE FROM MAIN INTO VALVE BOX AND UP.

M.J. VALVE AND VALVE BOX

NTS \[SD\] SD 1–14

M.J. VALVE AND VALVE BOX

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 1-14

DATE: 01/01/08

Not To Scale

...
FIRE HYDRANT ASSEMBLY

AMERICAN DARLING MK 73–5
(Yellow in Color)
OR
MUeller CENTURIAN
(Yellow in Color)

Provide barrel extension section as required for proper vertical alignment.

6" GATE VALVE & VALVE BOX
(See valve & valve box detail)
Wired from cap to main

Concrete blocking wrapped in plastic

Bury line

Compacted back fill

Bury as specified

1.5'

6" D.I.P.
3/4" mega lug (typical)

2'

2.5'

Stone (7 C.F. Min)
Weep hole
(To remain open)

Concrete blocking wrapped in plastic

As shown on plans
FIRE HYDRANT ASSEMBLY

AMERICAN DARLING MK 73-5
(Yellow in Color)
OR
MUELLER CENTURIAN
(Yellow in Color)

PROVIDE BARREL EXTENSION SECTION AS REQUIRED FOR PROPER VERTICAL ALIGNMENT

BURY LINE

COMPACTED BACK FILL

STONE (7 C.F. Min)
WEEP HOLE
(To Remain Open)

CONCRETE BLOCKING WRAPPED IN PLASTIC

6" GATE VALVE
& VALVE BOX
(SEE VALVE & VALVE BOX DETAIL)
WIRED FROM CAP TO MAIN

CONCRETE THRUST COLLAR
BURY AS SPECIFIED
THRUST RING

3/4" MEGA LUG (TYPICAL)

6" D.I.P.

10'

2.5'

1'

2'

FIRE HYDRANT ASSEMBLY
NTS SD 1-18 FAR SIDE
(=/> 10’ LEG)

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 1-18
DATE: 01/01/08

Not To Scale

...
(2) #4 REBAR 4 EACH WAY

3000 PSI CONCRETE THRU CST COLLAR

THREADED GALVANIZED STEEL SEE THE ROD SCHEDULE FOR QUALITY AND SIZE OF THE ROD.

M.J. CAP OR OTHER M.J. FITTING

2" DIA. THREADED TAP AND BRASS NIPPLE FOR 2" LINE EXTENSION

#4 REBAR

THRU CST COLLAR SHALL BE FORMED USING 1/2" EXTERIOR PLYWOOD AS PER COLLAR DIMENSIONS SHOWN.

TIE ROD SCHEDULE

<table>
<thead>
<tr>
<th>PIPE DIAM.</th>
<th>QUAN.</th>
<th>SIZE</th>
<th>LINE SIZE</th>
<th>MIN. W</th>
<th>MIN. D</th>
<th>PLATE DIAM.</th>
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<td>4&quot;</td>
<td>6&quot;</td>
<td>L+8&quot;</td>
<td>L+2&quot;</td>
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<tr>
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<td>L+3&quot;</td>
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<tr>
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<td>L+9&quot;</td>
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<tr>
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<td>1 1/4&quot;</td>
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<td>24&quot;?</td>
<td>L+11&quot;</td>
<td>L+5&quot;</td>
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* CONTRACTOR VERIFY DISTANCE W/COLLAR SUPPLIERS.

THRU CST COLLAR

NTS SD 1–22

NORTH BRUNSWICK SANITARY DISTRICT

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TEL (910) 371-9949
FAX (910) 371-6441

THRU CST COLLAR

STANDARD DETAIL: SD 1-22

DATE: 01/01/08

Not To Scale
<table>
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<tr>
<th>BLOCKING</th>
<th>DIMENSIONS</th>
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<td>PIPE SIZE</td>
<td>A</td>
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<tr>
<td>UP TO 10&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>12&quot; TO 18&quot;</td>
<td>6'-0&quot;</td>
</tr>
<tr>
<td>18&quot; TO 24&quot;</td>
<td>8'-0&quot;</td>
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</table>

CONCRETE BLOCKING DETAILS

NTS SD 1-24

NORTH BRUNSWICK SANITARY DISTRICT

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441

STANDARD DETAIL: SD 1-24

DATE: 01/01/08

CONCRETE BLOCKING DETAILS
2000 PSF SOIL (SAND & GRAVEL WITH CLAY)

NOTES:
1. BASED ON 200 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER ALLOWANCE.
2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
3. THRUST BLOCKS TO BE USED AT ALL LINES OPERATING UNDER PRESSURE.
4. KEEP ALL PIPING JOINTS CLEAR OF CONCRETE THRUST BLOCKS.
5. WRAP ALL FITTINGS IN PLASTIC.

THRUST BLOCKING DETAILS

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FAX (910) 371-6441

STANDARD DETAIL: SD 1-26
DATE: 01/01/08
Not To Scale

THRUST BLOCKING DETAILS
MANHOLE FRAME & COVER

NOTE:
FRAME AND COVER TO BE DEWEY BROS., INC.
MH RCR-2001, MH RCR-2001W (FOR SEALED MANHOLES IF REQ'D.) AS SHOWN ON PLANS), OR APPROVED EQUAL.

SECTION A-A

USE 3/8" ANCHOR BOLTS TO BOLT FRAME TO SPACER. USE ROPE MASTIC SEAL BETWEEN FRAME & SPACER

MANHOLE COVER & FRAME

NORTH BRUNSWICK SANITARY DISTRICT
P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
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FAX (910) 371-6441

STANDARD DETAIL: SD 2-02
DATE: 01/01/08
Not To Scale

SD 2-02
PLASTIC MANHOLE STEP

NORTH BRUNSWICK SANITARY DISTRICT
P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441

PLASTIC MANHOLE STEP

STANDARD DETAIL: SD 2-06
DATE: 01/01/08
Not To Scale
1. Neoprene Boot, Kor-N-Seal or Equal, to be used on all precast manholes with all types of pipes.

2. Pipe clamp (300-series non-magnetic corrosion-resistant steel).

3. Expansion band (Korbond 6061-T6 aluminum alloy with a black anodized surface).

4. Use stainless steel drip pans on all manholes in pavement; vinyl outside pavement.

5. Coat interior with two coats of coal tar epoxy for a final thickness of 21 mils. Wrap outside of manhole with wide wrap mastic.

6. All manholes within NCDOT row shall be constructed per NCDOT standards.

Frame & Cover (see detail), bolted and mortared, rounded as shown.

Butyl rubber based flexible joint sealant or O-ring gasket with a 4" wide butyl rubber wrap outside.

Precast concrete grade adjustment rings—min. 4" high (maximum of 2).

Pipe to be connected to manhole with flexible sleeve & stainless steel strap.

Concrete base

Aggregate bed, No. 57 stone

Concrete

4" Dia.

14" Max.

16" Typ.

Riser unit

Eccentric taper unit

Base unit

Precast concrete sections as required, ASTM C478 integral floor, unless shown otherwise, minimum number of joints.

Type "N" masonry mortar, 1" maximum

6" Max. for spacer

8" Max.

18" Max.

24" Manhole ring & cover with drip pan and rain guards inside manhole.

Use 3/8" anchor bolts to bolt frame to spacer, use rope mastic seal between frame & spacer.

Notes:

NOTES:
NOTES:
2. TWO PIPE CLAMPS REQUIRED FOR PIPE O.D.'S 15" AND LARGER.

SEWER LINE CONNECTION TO EXISTING MANHOLE

NORTH BRUNSWICK SANITARY DISTRICT

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SEWER LINE CONNECTION TO EXISTING MANHOLE

STANDARD DETAIL: SD 2-12

DATE: 01/01/08

Not To Scale
NOTES:
1. MATERIAL SPECIFICATIONS: NEOPRENE BOOT –
ASTM C-923; PIPE CLAMP & EXPANSION CLAMP –
STAINLESS STEEL, ASTM C-923.
2. TWO PIPE CLAMPS REQUIRED FOR PIPE O.D.'S
15” AND LARGER.
3. PIPE CLAMP (300–SERIES NON–MAGNETIC
CORROSION–RESISTANT STEEL)

MANHOLE BOOT
NTS SD 2–14

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PRECAST S.S. DROP MANHOLE

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 2-16

DATE: 01/01/08

Not To Scale

PRECAST S.S. DROP MANHOLE

PIPE SIZE AS REQ’D

CONCRETE BLOCKING FOR DROP PIPE SUPPORT

SDR18 PVC PIPE DROP SECTION

24” M.H. FRAME AND COVER TO BE SET IN MORTAR

MASTIC JOINT

FLEXIBLE SLEEVE W/ SST STRAP

STABILIZATION STONE AS REQUIRED.
NOTES:

1. PIPE FOR INSIDE DROP SHALL BE SDR 35 P.V.C. CONFORMING TO ASTM SPECIFICATION D3034.

2. BOTTOM BEND TO BE 90° SHORT BEND, BELL SPIGOT, OF SDR 35 P.V.C. SPIGOT OF BEND TO REST DIRECTLY ON EXISTING SHELF. CONSTRUCT MASONRY TROUGH FROM DROP.

3. NOTCH BELL OF P.V.C. DROP TO ACCEPT D.I.P. P.V.C. TEE SPIGOT AS SHOWN.

4. LOCATE STRAPS AT PIPE BELL AND ABOVE BELL OF 90° BEND AS SHOWN. ADD EXTRA STRAPS AS NECESSARY TO MAINTAIN MAXIMUM SPACING OF TEN FEET.

5. HOLE IN MANHOLE WALL TO BE MADE WITH A CORING MACHINE. INSTALL A "KOH-N-SEAL" FLEXIBLE RUBBER COUPLING OR EQUAL.

6. CORE HOLE SHALL NOT ENTER CONE SECTION.

5' DIA. INSIDE DROP MANHOLE CONNECTION

NTS

SD 2-18
NOTES:
1. CLEAN-OUT PIPE AND FITTINGS SHALL BE THE SAME DIAMETER AND MATERIAL AS THE SERVICE LATERAL.
2. PROVIDE CLEAN-OUTS WHERE INDICATED ON THE PLANS.
3. D.I.P. CLEAN-OUTS SHALL HAVE BRONZE-THREADED CLEAN-OUT PLUG.
4. WHERE CLEAN-OUTS ARE INSTALLED ON PIPING UNDER PRESSURE, ALL JOINTS SHALL HAVE RETAINER GLANDS OR OTHER APPROVED METHOD OF RESTRAINT. ALL RISER PIPE, FITTINGS AND CLEAN-OUT PLUG SHALL BE WATERTIGHT AND RATED FOR THE PressURES PRESENT AT THE PARTICULAR POINT OF INSTALLATION.

SANITARY SEWER SERVICE LATERAL CLEANOUT

NTS

SD 2–20

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 2-20

DATE: 01/01/08

Not To Scale

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516 VILLAGE ROAD NE
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SANITARY SEWER SERVICE LATERAL CLEANOUT
CLEANOUT PAD

PLAN

SECTION A-A

PRE-CAST CONCRETE COLLAR

CLEANOUT

CLEANOUT PAD

NTS SD 2-22

DATE: 01/01/08

Not To Scale

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441

CLEANOUT PAD
BRING STONE TO SPRINGLINE (MIDDLE OF PVC)

NOTE: START LAYING PIPE AT LOW END; BUILD AGAINST DIRECTION OF FLOW

P.V.C. PIPE—NORMAL CONDITIONS

P.V.C. PIPE—WET CONDITIONS

D.I.P. IN ROCK & WET CONDITIONS

SEWER LINE TRENCHING DETAILS

DATE: 01/01/08

NTS

SEWER LINE TRENCHING DETAILS

SD 2-24
NOTES:
1. REFERENCE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
2. CUT-BACK TO BE PERFORMED AFTER TRENCH BACK-FILLING AND COMPACTION.
3. NEW PAVEMENT TO MEET ALL NCDOT REQUIREMENTS.
PAVEMENT REPAIR

6" AS REQUIRED 6"

BITUM
CONCRETE SURFACE TYPE 1–2

CRUSHED STONE BASE

COMPACTED BACK FILL

USE MATERIALS PER NCDOT REQUIREMENTS ON NCDOT DRIVEWAYS AND ROADWAYS.

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441

PAVEMENT REPAIR

NORTH BRUNSWICK SANITARY DISTRICT
STANDARD DETAIL: SD 2-34
DATE: 01/01/08
Not To Scale

...
PUMP CONTROL PANEL MUST BE LABELED WITH THE NAME AND NUMBER OF A 24-HR. EMERGENCY CONTACT.

CONTROL PANEL IN NEMA 4X ENCLOSURE MOUNTED TO SIDE OF BUILDING

NEMA 4X JUNCTION BOX REMOTE FROM PUMP STATION AS REQUIRED. WHEN PUMP LEADS AND/OR FLOAT WIRING CANNOT BE EXTENDED TO CONTROL PANEL WITHOUT SPLICING, JUNCTION BOX SHALL BE MOUNTED TO SIDE OF HOUSE OR ON SUITABLE SUPPORT (4"X4" TREATED POST OR APPROVED EQUAL) ADJACENT TO PUMP STATION. REGARDLESS OF LOCATION, JUNCTION BOX SHALL BE AT LEAST 12" ABOVE GRADE.

STAINLESS STEEL BOLTS, NUTS, AND WASHERS (MIN. 6 TOTAL)

FIBERGLASS BASIN WITH SEALED TOP AND RESTRICTED ACCESS

STAINLESS STEEL SCREEN

NO SPlicing OF Wires ALLOWED INSIDE BASIN

1 1/2" SCH. 80 PVC VENT PIPE

1.5" BALL VALVE w/ QUICK DISCONNECT

1.5" DISCHARGE FLANGE

1.5" STAINLESS STEEL PIPE NONCORROSIVE LIFT CHAIN OF CABLE

1.5" SWING CHECK VALVE

1.5" TO SERVICE LINE

VALVE BOX

GRINDER PUMP BASE FOR FLOATATION CONTROL MIN. 16.5 CF

CONCRETE FILLET

CONCRETE FOR FLOATATION CONTROL MIN. 16.5 CF

REDUNDANT ALARM FLOAT

FROM HOUSE PLUMBING

1.5" SCH. 40 PVC

1.5" SCH. 80 PVC UNION

NOTE:

1. THE UNIT SHALL BE READILY ACCESSIBLE TO THE OWNER OR OWNERS AGENT FOR EMERGENCY PURPOSES.
2. PUMP OFF LEVEL IS 12 INCHES FROM BOTTOM OF BASIN, PUMP ON LEVEL IS 20 INCHES FROM BOTTOM OF BASIN.
3. ALARM LEVEL IS 24' FROM THE BOTTOM OF THE BASIN.
4. A REDUNDANT ALARM FLOAT SHALL BE INCORPORATED INTO THE BASIN COMPONENTS.

HOUSE PUMPING UNIT

NTS SD 2-38

GRINDER PUMP STATIONS FOR SINGLE FAMILY HOMES:

GRINDER PUMP STATION SYSTEMS SHALL INCLUDE A SINGLE-PHASE ZOELLER "SHARK 840" GRINDER PUMP. PUMP SHALL BE 2 HP, 208/230V, W/5.5 HP IMPELLER. OIL COoled INDUCTION WITH CAPACITOR START MOTOR, 3450 RPM, 60 HZ, TYPE L NEMA DESIGN, CLASS B INSULATION, 1 1/4" NPT DISCHARGE WITH WATER RESISTANT 600 V, 60 C, CSA/L APPROVED POWER CORD. NO SPlices WILL BE ALLOWED IN THE POWER CORD BETWEEN THE PUMP AND CONTROL PANEL. CONTROLS AND APPURtenANCES SHALL BE SIMPLEx SINGLE-PHASE, 208/230V, 60Hz CONTROL PANEL IN NEMA 4X WEATHER-TIGHT, NON-CORROSIVE FIBERGLASS ENCLOSURE WITH HOA OPERATION ALARM LIGHT (VISible ALARM) AND BELL (AUDIBLE ALARM). THE ALARM SHALL BE PROVIDED ON A SEPARATE CIRCUIT FROM THE PUMP. PANEL SHALL BE AS MANUFACTURED BY ZOELLER OR AS SPECIFICALLY APPROVED BY THE ENGINEER.

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 2-38

DATE: 01/01/08

Not To Scale

...
4"x4" HALLIDAY SIR2424 ALUMINUM HATCH CAST IN TOP WITH SS HARDWARE OR APPROVED EQUAL

SHORT BODY PRESSURE SEWER VALVE WITH 2" NPT INLET, 1/2" NPT OUTLET. VALVE SHALL BE VALVOMATIC MODEL 48.

4"x4" PRECAST CONCRETE BOX

1/4" TURN BALL VALVE

M.J. TEE TAPPED 2"

MIN. 1.2 C.F. OF CONCRETE

COMPACTED CRUSHED STONE

AIR RELEASE VALVE

NORTH BRUNSWICK SANITARY DISTRICT

STANDARD DETAIL: SD 2-40

DATE: 01/01/08
Not To Scale

AIR RELEASE VALVE

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-9949
FAX (910) 371-6441
PRESSURE SEWER SERVICE NOTES:
Wet tapping, service saddles for wet tapping of pressure sewer lines shall be Ford Series FS202, or approved equal saddle with stainless steel band. Outlet threads shall be iron pipe size. Valving mechanism shall be Ford Corporation Stop Series FB500, or approved equal corporation stop with inlet and outlet being male iron pipe threads. Connection between the corporation stop and Sch. 40 PVC service line shall be accomplished using a Sch. 40 PVC iron pipe thread by slip coupling. Where connection is to be made to 2" pressure sewer line, said connection may be made by cutting into the line and inserting a 2" Sch. 40 tee. If said connection can be made while taking the line out of service for no more than 15 minutes.

PROXIMITY TO WATER SUPPLY LINES:
Where sewer services cross water supply lines, the sewer shall be installed a minimum of 18" below the water line. (Conversely, where water service lines cross sewer mains, the water line shall be installed a minimum of 18" above the sewer main as noted on the "water distribution system" detail sheet.)

SPECIAL NOTE:
The service for any platted lot shall be installed at the time pressure sewer main serving the lot is constructed. Wet tapping for services shall be allowed only for areas where lots were not platted at the time adjacent sewer mains were constructed. When any service tap is made, the valve box, gate valve, and meter box shall be installed, and the service line shall be continued at least to the right-of-way line.

1 1/2" Bronze Gate Valve

Plastic Meter Box with Top Stamped "SEWER"

Duruss 2" Flowmatic Ball Check Valve, Model 508

NOTE: Pipe and fittings to otherwise noted. Sch. 40 PVC adapters shall be provided at each end of valves.

Magnetic Locator Tape from Pump to Tank

WIRE FROM MAIN INTO BOX

To Collection System

SERVICE LINE VALVE BOX

NTS SD 2-42

DATE: 01/01/08

SERVICE LINE VALVE BOX

Not To Scale

STANDARD DETAIL: SD 2-42

NORTH BRUNSWICK SANITARY DISTRICT

P.O. BOX 2230
516 VILLAGE ROAD NE
LELAND, N.C. 28451-2230
TEL (910) 371-6449
FAX (910) 371-6449
NOTES:
1. SLOPE FINISH GRADE TO DRAIN AWAY FROM BOX.
2. WHERE PRESSURE SEWER IS 3" OR LARGER TEE SHALL BE M.J. WITH 2" TAP. 2" SCH. 40 PVC TEE MAY BE USED FOR 2" PRESSURE SEWER.
3. IN LINE CLEANOUT SHALL BE LOCATED APPROXIMATELY 2' FROM ADJACENT GATE VALVE.