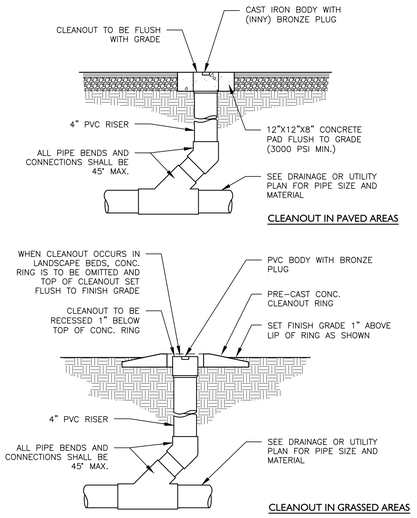
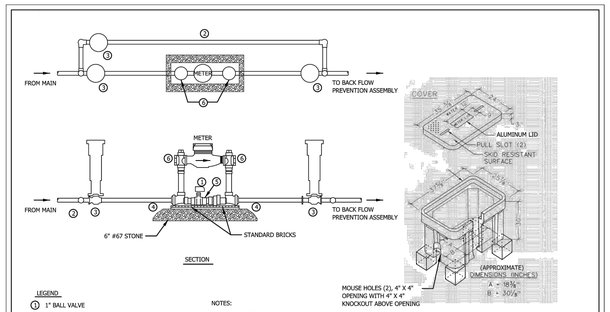


NOTE: ENGRAVE "SS" IN SANITARY SEWER PLUG AND ENGRAVE "SD" IN STORM DRAIN PLUG.

1 Cleanout
N.T.S.



LEGEND
1. 1" BALL VALVE
2. COPPER TUBING TYPE K OR BLUE CTS PEX TUBING
3. CURB STOP BALL VALVE
4. 3' SECTION THREADED BRASS PIPE
5. 1" BYPASS
6. BALL ANGLE METER VALVE

NOTES:
1) METER SETTER IS STABILIZED USING (2) 1" DIA., 18" LONG PIPE RESTING ON (4) BRICKS.
2) WATER MUST DRAIN AWAY FROM CONRETE VAULT. VAULT MUST BE LOCATED IN A GRASS OR LANDSCAPE AREA, AND NOT IN SIDEWALKS OR DRIVES.
3) 4 - CONCRETE BLOCK SUPPORTS UNDER BOX.

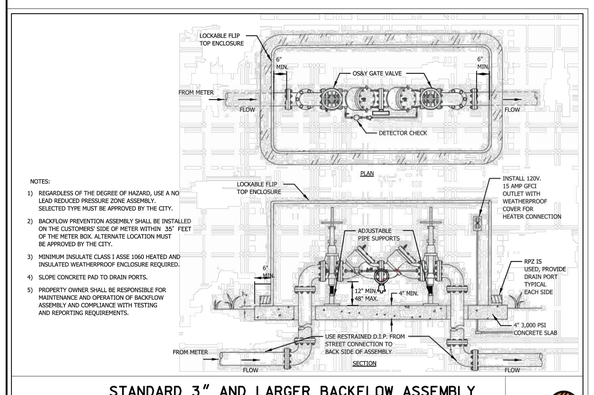
STANDARD 1" & 2" METER AND VAULT

DATE:	REVISIONS

STANDARD DETAIL

DATE: 03/07/2017
SHEET 1 OF 1
STD. No. W-2.02

2 2" Domestic Water Meter Service
N.T.S.



NOTES:
1) REGARDLESS OF THE DEGREE OF HAZARD, USE A NO LEAD REDUCED PRESSURE ZONE ASSEMBLY. SELECTED TYPE MUST BE APPROVED BY THE CITY.
2) BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON THE CUSTOMERS' SIDE OF METER WITHIN 35' FEET OF THE METER BOX. ALTERNATE LOCATION MUST BE APPROVED BY THE CITY.
3) MINIMUM INSULATE CLASS I ASSE 1060 HEATED AND INSULATED WEATHERPROOF ENCLOSURE REQUIRED.
4) SLOPE CONCRETE PAD TO DRAIN PORTS.
5) PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AND OPERATION OF BACKFLOW ASSEMBLY AND COMPLIANCE WITH TESTING AND REPORTING REQUIREMENTS.

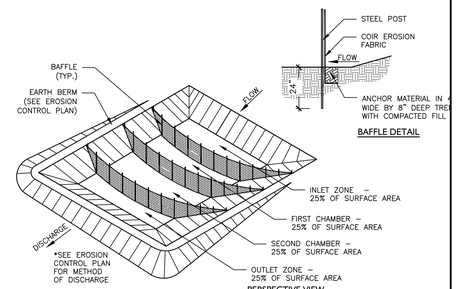
STANDARD 3" AND LARGER BACKFLOW ASSEMBLY

DATE:	REVISIONS

STANDARD DETAIL

DATE: 03/07/2017
SHEET 1 OF 1
STD. No. W-2.07

3 Backflow Assembly
N.T.S.

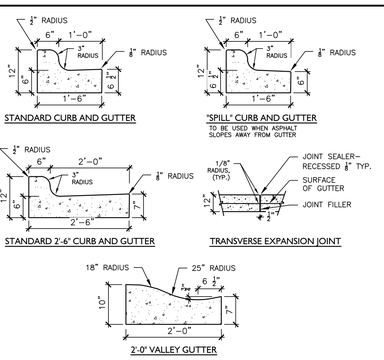


CONSTRUCTION SPECIFICATION

1. GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL FRONT TO BACK AND SIDE TO SIDE.
2. INSTALL POSTS ACROSS THE WIDTH OF THE SEDIMENT TRAP, SEDIMENT BASIN AND/OR SKIMMER BASIN AS SHOWN.
3. STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24 INCHES, SPACED A MAXIMUM OF 4 FEET APART, AND INSTALLED UP THE SIDES OF THE BASIN AS WELL. THE TOP OF THE FABRIC SHOULD BE 6 INCHES HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
4. BAFFLE MATERIAL SHALL BE 700 G/M² COIR EROSION FABRIC.
5. INSTALL AT LEAST THREE ROWS OF BAFFLES BETWEEN THE INLET AND OUTLET DISCHARGE POINT. BASINS LESS THAN 20 FEET IN LENGTH MAY USE 2 BAFFLES THAT DIVIDES THE BASIN IN THIRDS.
6. ADD A SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
7. WRAP BAFFLE MATERIAL OVER THE TOP WIRE. ATTACH FABRIC TO A ROPE AND A SUPPORT STRUCTURE WITH ZIP TIES, WIRE, OR STAPLES. USE 3 TIES PER POST ALL WITHIN TOP 8" OF FABRIC.
8. THE BOTTOM AND SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH 8" DEEP. IN LIEU OF EXCAVATING A TRENCH, THE FABRIC MAY BE INSTALLED WITH A PIECE OF EQUIPMENT SPECIFICALLY DESIGNED TO SLICE THE GROUND WITH A DISC.
9. DO NOT SPLICE THE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

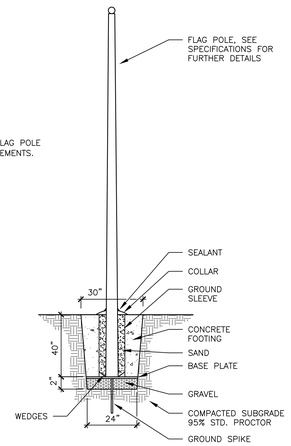
MAINTENANCE
- INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

4 Temporary Porous Baffle
NCDEQ STD. 6.65



NOTES
1. CONTRACTION JOINTS SHALL BE SPACED AT 10–FOOT INTERVALS. FOR VALLEY GUTTER, A 15–FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.

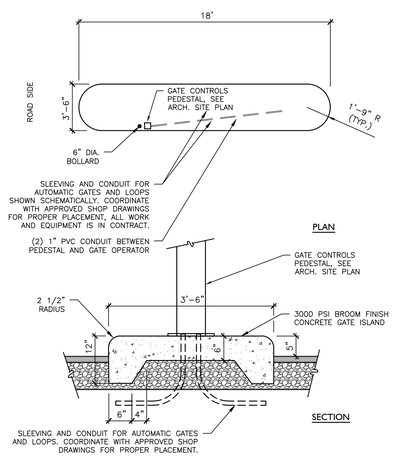
5 Concrete Curb and Gutter Detail
N.T.S.



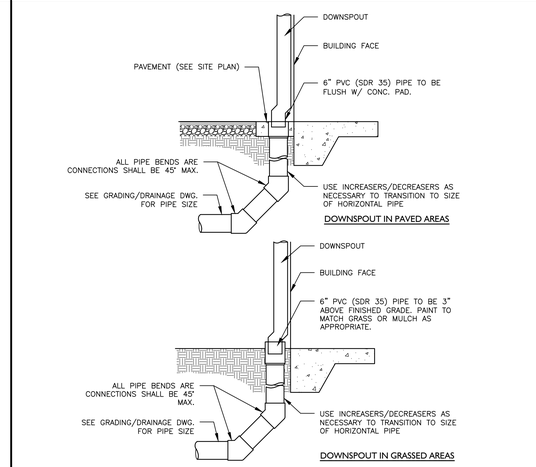
NOTES

1. FLAG POLE HEIGHT SHALL 30'
2. DETAIL IS GENERIC. INSTALL FLAG POLE PER MANUFACTURER'S REQUIREMENTS.

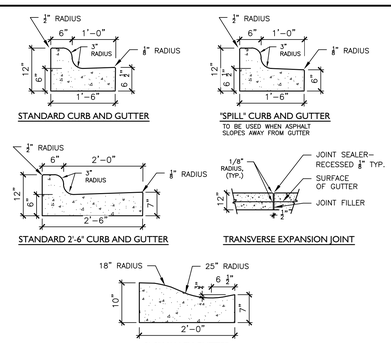
6 Flag Pole Detail
N.T.S.



7 Automatic Gate Island Detail
N.T.S.



8 Downspout Connection
N.T.S.



NOTES
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5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.

9 Concrete Curb and Gutter Detail
N.T.S.

SLOPES (3:1 TO 2:1)

DATE	TYPE	PLANTING RATE
AUG 15 – NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 – MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE 25 LBS/ACRE
MAR 1 – APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 – JUN 30	HULLED COMMON BERMUDA GRASS	25 LBS/ACRE
JUL 1 – AUG 15	TALL FESCUE AND ***BROWNTOP MILLET *** OR SORGHUM–SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

SLOPES (3:1 TO 2:1)

DATE	TYPE	PLANTING RATE
MAR 1 – JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND	50 LBS/ACRE
MAR 1 – APR 15	ADD TALL FESCUE	120 LBS/ACRE
MAR 1 – JUN 30	OR ADD HULLED COMMON BERMUDA GRASS	25 LBS/ACRE
JUN 1 – SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM–SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 – MAR 1	SERICEA LESPEDEZA (UNHULLED– UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE 120 LBS/ACRE
NOV 1 – MAR 1	ADD ABRUZZI RYE	25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY – RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

SOW SEED USING A SPREADER OR SEEDING MACHINE. DO NOT SEED WHEN WIND VELOCITY EXCEEDS 5 MPH. DISTRIBUTE SEED EVENLY OVER ENTIRE AREA BY SOWING EQUAL QUANTITY IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.

SOW NOT LESS THAN THE QUANTITY OF SEED SPECIFIED OR SCHEDULED.

RAKE SEED LIGHTLY INTO TOP 1/8" OF SOIL, ROLL LIGHTLY, AND WATER WITH A FINE SPRAY.

PROTECT SEEDED SLOPES OF GREATER THAN 3:1 AGAINST EROSION WITH EROSION NETTING OR OTHER METHODS ACCEPTABLE TO THE LANDSCAPE ARCHITECT.

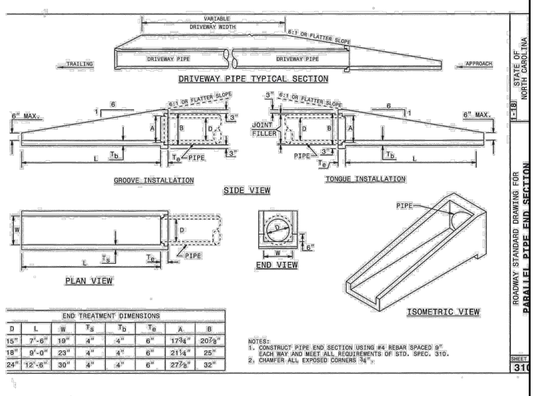
PROTECT SEEDED AREAS AGAINST EROSION BY SPREADING SPECIFIED LAWN MULCH AFTER COMPLETION OF SEEDING OPERATIONS. SPREAD UNIFORMLY TO FORM A CONTINUOUS BLANKET NOT LESS THAN 1 1/2" LOOSE MEASUREMENT OVER SEEDED AREAS.

ANCHOR MULCH BY SPRAYING WITH ASPHALT EMULSION AT THE RATE OF 10–13 GALLONS PER 1,000 S.F. TAKE PRECAUTIONS TO PREVENT DAMAGE OR STAINING OF CONSTRUCTION OR OTHER PLANTINGS ADJACENT TO MULCHED AREAS.

SEEDBED PREPARATION
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
5. CONTINUE TILLAGE UNTIL A WELL–PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4–6" DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIR OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

* APPLY: AGRICULTURAL LIMESTONE – 2 TONS/ACRE
FERTILIZER – 1000 LBS/ACRE 10–10–10
SUPERPHOSPHATE – 500 LBS/ACRE 20%
MULCH – 2 TONS/ACRE –SMALL GRAIN STRAW
ANCHOR – ASPHALT EMULSION

10 Seeding Specifications for Permanent Erosion Control
NCDENR STD. 6.11



END TREATMENT DIMENSIONS								
D	L	W	T_S	T_D	T_B	A	B	
15"	7'-0"	19"	2"	4"	6"	17¾"	20⅞"	
18"	9'-0"	23"	2"	4"	6"	21¼"	25"	
24"	12'-0"	30"	2"	4"	6"	27⅞"	32"	

NOTES:
1. CONSTRUCT PIPE END SECTION USING #4 REBAR SPACED 9" EACH WAY AND MEET ALL REQUIREMENTS OF STD. SPEC. 310.
2. CHAMFER ALL EXPOSED CORNERS ¾".

ROADWAY STANDARD DRAWING FOR PARALLEL PIPE END SECTION

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

310.01

11 NCDOT Parallel Pipe End Section

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SAMPSON COUNTY 911 & ES FACILITIES

CLINTON, NORTH CAROLINA

CONSTRUCTION DOCUMENTS

SITE CONSTRUCTION DETAILS

DATE 12.04.2020
PROJECT NO 20003
REVISIONS

NUM.	DATE	DESCRIPTION:
1	12.17.20	Revision 1

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CARLISLE SHERRILL SEAL 15471 ENGINEER WESLEY E. SHERRILL
12/17/20
SEAL

SHEET NUMBER C501