

PORTION OF THE SW 1/4 OF THE NW 1/4 OF SEC. 33, TWN. 24N., RGE. 5E., W.M.

APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____
CITY OF NEWCASTLE

THESE DRAWINGS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 12 MONTHS FROM THE DATE SHOWN HEREON. THE CITY RESERVES THE RIGHT TO MAKE REVISIONS, ADDITIONS, DELETIONS, OR MODIFICATIONS SHOULD CONSTRUCTION BE DELAYED BEYOND THIS TIME LIMITATION. THE CITY, BY APPROVING THESE DRAWINGS, ASSUMES NO LIABILITY IN REGARDS TO THEIR ACCURACY OR OMISSIONS.



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CITY OF NEWCASTLE

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PROJECT NO.: 12025
DRAWN BY: ENM
ISSUE DATE: 02-27-13
SHEET REV.:

DETAILS

C12
SHEET 12 OF 15

RIGID PIPE BEDDING

30" MAXIMUM FOR PIPE UP TO AND INCLUDING 12" FOR PIPE LARGER THAN 12", O.D. OF PIPE PLUS 16".
HAND COMPACTED BACKFILL
SPRING LINE
COMPACTED BEDDING GRAVEL PER SECTION 9-03.12(3), "GRAVEL BACKFILL FOR PIPE ZONE BEDDING" OF THE STANDARD SPECIFICATIONS, OR CONCRETE IF SPECIFIED.
FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

FLEXIBLE PIPE BEDDING

SEE ABOVE FOR TRENCH WIDTH
HAND COMPACTED BACKFILL
COMPACTED BEDDING GRAVEL PER SECTION 9-03.16, "BEDDING MATERIAL FOR THERMOPLASTIC PIPE" OF THE STANDARD SPECIFICATIONS, OR CONCRETE IF SPECIFIED.
PVC PIPE
FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

CONCRETE ENCASEMENT

SEE ABOVE FOR TRENCH WIDTH
CONCRETE, 2000 PSI (SEE NOTE 3.)
FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

DETENTION PIPES WITH UNDERDRAINS (SEE NOTE 4.)

RIGID OR FLEXIBLE PIPE BEDDING (PER ABOVE).
FILTER FABRIC ABOVE GRAVEL BACKFILL FOR DRAINS. PROVIDE 12" MIN. OVERLAP AT SEAMS.
GRAVEL BACKFILL FOR DRAINS PER SECTION 9-03.12(4) OF THE STANDARD SPECIFICATIONS FROM BOTTOM OF UNDERDRAIN PIPE TO SPRINGLINE OF DETENTION PIPE.
UNDERDRAIN PIPE (TYP.) 6" MIN. PERF. PER STANDARDS (SEE NOTE 5.).
FOUNDATION GRAVEL, IF REQUIRED (SEE NOTE 2.)

NOTES:

1. COMPACTED CRUSHED SURFACING TOP COURSE PER SECTION 9-03.9(3), "CRUSHED SURFACING", OF THE STANDARD SPECIFICATIONS CAN ALSO BE USED AS BEDDING GRAVEL.
2. EXCAVATE UNSTABLE MATERIAL DOWN TO FIRM SOIL AND REPLACE WITH FOUNDATION GRAVEL PER SECTION 9-03.9(1), "BALLAST", OF THE STANDARD SPECIFICATIONS
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANCHORING PIPE TO PREVENT FLOTATION DURING CONCRETE PLACEMENT.
4. WHEN THE DESIGN OF TANKS OR PIPES DOES NOT TAKE INTO ACCOUNT BOUANCY, UNDERDRAINS SHALL BE PROVIDED.
5. PROVIDE CLEANOUTS ON UNDERDRAIN PIPE, EVERY 100 FEET, AND AT BENDS OR JUNCTIONS.

CITY OF NEWCASTLE
PIPE BEDDING DETAIL

APPROVED: _____ DATE: 8/1/2000
BY CITY

DWG. NO. SW-14

CB #10 FLOW CONTROL STRUCTURE

CITY OF NEWCASTLE
FLOW RESTRICTOR TEE TYPE

APPROVED: _____ DATE: 8/1/2000
BY CITY

DWG. NO. SW-18

CITY OF NEWCASTLE
24" BOLT-LOCKING MANHOLE RING & COVER

APPROVED: _____ DATE: 8/1/2000
BY CITY

DWG. NO. SW-19

OVER FLOW STRUCTURE CB#15
NOT TO SCALE

SECTION A-A

NOTES:

1. SEE SEC. 3.02 FOR SIDEWALK WIDTHS.
2. SEE SECS. 2.02 AND 2.03 FOR PAVEMENT AND SHOULDER WIDTHS.
3. SHOULDER SHALL BE SURFACED AS REQUIRED BY SECS. 3.07 AND 4.01. PAVED SHOULDER SLOPE SHALL MATCH CROWN SLOPE OR 0.02 FT./FT.
4. SEE FIG. 3-001 FOR CURB AND SIDEWALK JOINTS.
5. RAMP SHALL BE TEXTURED USING TRUNCATED DOME PATTERN. (SEE FIG. 3-011.) DETECTABLE WEARING PATTERN SHALL BE YELLOW IN COMPLIANCE WITH WSDOT STANDARD SPECIFICATIONS 8-14.3(3).
6. THIS DETAIL APPLIES TO ROLLED AND VERTICAL CURB ROADWAYS.

CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER

TRUNCATED DOMES (SEE NOTE)
DETECTABLE WARNING PATTERN DETAIL

	MIN.	MAX.
D	1 5/8"	2 3/8"
E	5/8"	1 1/2"
F	7/16"	3/4"
G	7/8"	1 7/16"

GRAVEL INFILTRATION TRENCH
SCALE: 1"=2'

SPILL CONTROL STRUCTURE CB#7, CB#13 AND CB#17
NOT TO SCALE