<table>
<thead>
<tr>
<th>Page Number</th>
<th>Page Title</th>
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</thead>
<tbody>
<tr>
<td>COVER</td>
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</tr>
<tr>
<td>GD-01</td>
<td>RESTRAINT TABLE</td>
</tr>
<tr>
<td>GD-02</td>
<td>MARKER BALL AND METALIC LOCATION TAPE INSTALLATION</td>
</tr>
<tr>
<td>GD-03</td>
<td>TYPICAL VALVE INSTALLATION</td>
</tr>
<tr>
<td>GD-04</td>
<td>TYPICAL BOLLARD</td>
</tr>
<tr>
<td>GD-05</td>
<td>MAIN SEPARATION</td>
</tr>
<tr>
<td>GD-06</td>
<td>ALIGNMENT OF MAINS, VALVES AND HYDRANTS</td>
</tr>
<tr>
<td>GD-07</td>
<td>TAPPING SLEEVE</td>
</tr>
<tr>
<td>GD-08</td>
<td>TYPICAL THRUST BLOCK DETAILS</td>
</tr>
<tr>
<td>GD-09</td>
<td>TYPICAL CUT-IN VALVE</td>
</tr>
<tr>
<td>GD-10</td>
<td>TYPICAL DIRECTIONAL BORE</td>
</tr>
<tr>
<td>GD-11</td>
<td>TYPICAL JACK &amp; BORE DETAIL</td>
</tr>
<tr>
<td>GD-12</td>
<td>TIE-BACK ASSEMBLY</td>
</tr>
<tr>
<td>GD-13</td>
<td>STANDARD PRESSURE PIPE TRENCH</td>
</tr>
<tr>
<td>GD-14</td>
<td>STANDARD GRAVITY SEWER PIPE TRENCH</td>
</tr>
<tr>
<td>GD-15</td>
<td>MANUAL AIR RELEASE</td>
</tr>
<tr>
<td>GD-16</td>
<td>STANDARD CRAWL GUARD ASSEMBLY</td>
</tr>
<tr>
<td>GD-17</td>
<td>PILE CAP APPLICATION-CRAWL GUARD ASSEMBLY</td>
</tr>
<tr>
<td>GD-18</td>
<td>CRAWL GUARD SIGN</td>
</tr>
<tr>
<td>GD-19</td>
<td>BURIED MAIN SIGN</td>
</tr>
<tr>
<td>GD-20</td>
<td>CCU PROJECT SIGN</td>
</tr>
<tr>
<td>GD-21</td>
<td>TALLY BLOCKS</td>
</tr>
<tr>
<td>GD-22</td>
<td>SUBAQUEOUS CROSSING TESTING POINT</td>
</tr>
<tr>
<td>GD-23</td>
<td>TYPICAL UTILITY CROSSING</td>
</tr>
</tbody>
</table>
1. FITTINGS SHALL BE RESTRAINED JOINT UNLESS OTHERWISE NOTED.
2. ALL PIPE SHALL BE RESTRAINED IN ACCORDANCE WITH THESE TABLES OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
3. WHERE TWO (2) OR MORE FITTINGS ARE TOGETHER, RESTRAIN JOINTS IN ACCORDANCE WITH FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. RESTRAYNT TABLES APPLY TO TEST PRESSURES OF 150 PSI OR LESS.
5. FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUES BY A FACTOR OF 1.5.
6. LENGTH OF RESTRAINED PIPE INDICATED IN TABLES 1 & 4 SHALL BE THE LENGTH OF PIPE ON EACH SIDE OF FITTING OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
7. LENGTH OF RESTRAINT TABLES PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
MARKER BALL AND METALLIC LOCATION TAPE INSTALLATION
CHARLOTTE COUNTY UTILITIES

FORCE/WATER MAINS TAPPING SLEEVE
(AT PROPERTY LINE IF STUBBED OUT FOR FUTURE)

FORCE MAIN, POTABLE WATER MAIN AND RECLAIMED WATER MAIN

METALLIC LOCATION TAPE TO BE INSTALLED ON ALL MAINS

GRAVITY MAIN

MARKER BALL AND METALLIC LOCATION TAPE INSTALLATION
CHARLOTTE COUNTY UTILITIES
NOTE:
VALVE PAD SHALL BE USED IN ALL LOCATIONS INCLUDING SIDEWALK, DRIVEWAY AND ROADWAY APPLICATIONS, AND EXPANSION JOINTS SHALL BE USED IN ALL INSTANCES.

NOTE:
ALL VALVES 14" AND LARGER SHALL BE SIDE ACTUATED.
NOTE: SITE LOCATION, AND THE INSTALLATION TO BE PROTECTED, MAY REQUIRE A LARGER DIAMETER PIPE AND CONCRETE ANCHOR.
WATER MAIN

10 FEET PREFERRED
6 FEET MINIMUM

WATER MAIN

12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED.

12 INCHES PREFERRED
6 INCHES MINIMUM - STORM SEWER ONLY

HORIZONTAL SEPARATION

3 FT. MINIMUM

CROSSINGS

OTHER PIPE

STORM SEWER
STORMWATER FORCE MAIN
RECLAIMED WATER

WATER AND SEWER LINE AND SEPTIC TANK SEPARATIONS

NOTES:

1. 3 FEET FOR GRAVITY TYPE SANITARY SEWERS WHERE THE BOTTOM OF THE WATER MAIN IS Laid AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY TYPE SANITARY SEWER.
2. THE SEPARATION BETWEEN POTABLE WATER, RECLAIMED WATER AND OSTDS (SEPTIC TANKS) SHALL BE 10 INCHES.
3. WATER MAIN SHALL CROSS ABOVE OTHER PIPE. WHEN WATER MAIN SHALL BE BELOW OTHER PIPE THE MINIMUM SEPARATION SHALL BE 18 INCHES.

DATE: 11/01/2011

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NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

GD-05

CHARLOTTE COUNTY UTILITIES

DRAWN BY: DEC

APPROVED BY: BRB

ID: GD-05-MS.dwg
FIRE HYDRANTS SHALL NOT BE MORE THAN ONE FOOT OUTSIDE OF ROW LINE AND AT LEAST EIGHT FEET FROM CLOSEST ROAD IMPROVEMENT (PAVEMENT, GUTTER, CURB, ETC..)

NOTES:
1. (P/L) = PROPERTY LINE, EASEMENT LINE OR RIGHT OF WAY LINE
2. ALL VALVES SHALL BE PLACED AT THE FITTING UNLESS APPROVED BY CCU.
3. ALL MAINS SHALL BE LOCATED A MINIMUM OF 5'-0" FROM EDGE OF ROADWAY IMPROVEMENTS (PAVEMENT, GUTTERS, CURBS, ETC..) UNLESS APPROVED BY CCU.
4. ALL WATER LINES SHALL BE LOCATED ON THE NORTH SIDE OF EAST-WEST STREETS AND ON THE WEST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.
5. ALL RECLAIMED WATER AND SEWER FORCE MAINS SHALL BE LOCATED ON THE SOUTH SIDE OF EAST-WEST STREETS AND ON THE EAST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.
BEFORE INSTALLING THRUST BLOCK BEHIND AND A SUPPORT BLOCK UNDER THE TEE, WRAP TAPPING SLEEVE AND VALVE WITH VISQUEEN.

NOTE:

1. CUT IN TEES SHALL BE CONNECTED USING RIGID COUPLER
2. INSTALL A SUPPORT BLOCK UNDER THE TAPPING VALVE IF DIRECTED BY CCU.
NOTE:

1. THRUST BLOCKS SHALL BE USED IN CONJUNCTION WITH THE RESTRAINED JOINT TABLE WHEN DIRECTED BY THE ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES.

2. WRAP ALL FITTINGS WITH VISQUEEN BEFORE POURING THRUST BLOCKS. ALL THRUST BLOCKS SHALL BE LEFT OPEN FOR INSPECTION BY CCU.

3. ALL BEARING SURFACE SHALL BE CARRIED TO UNDISTURBED SOIL.

4. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR SOIL WITH A 2,000 P.S.F. SOIL BEARING (A-1 THRU A-3 CLEAN SAND AND GRAVELS).

5. POOR SOIL (A-1 THRU A-8, SILTY SOILS, CLAYS, MUCK & PEAT) SHALL REQUIRE LARGER THRUST BLOCKS.

6. THRUST BLOCK SIZES SHALL BE BASED ON 150 P.S.I. HYDROSTATIC TEST PRESSURE.

7. ALL THRUST BLOCKING SHALL BE 2500 PSI-28 DAY CONCRETE.

8. VERTICAL BENDS ONLY - 1/2" TIE RODS SHALL BE ANCHORED TO REACTION BLOCK AND COATED WITH 2 COATS OF BITUMINOUS EPOXY (16 MILS DRY THICKNESS).

9. VERTICAL BENDS ONLY - THRUST BLOCKS SHALL BE SIZED BY ENGINEER, AND APPROVED BY CCU PRIOR TO CONSTRUCTION.
SAW CUT AND REMOVE EXISTING MAIN AS REQUIRED

SEE TYPICAL VALVE AND VALVE INSTALLATION DETAIL

EXISTING MAIN

RESTRAINED M.J. (TYPICAL)

GATE VALVE

CONCRETE SUPPORT (SEE CCU THRUST BLOCK DESIGN DETAILS)

NIPPLE 3' MIN.

RESTRAINED M.J. (TYPICAL)

M.J. LONG PATTERN SLEEVE

EXISTING MAIN

VALVE BOX COVER

TYPICAL CUT-IN VALVE

CHARLOTTE COUNTY UTILITIES

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

ID: GD-09-CIV.dwg

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PROFILE
HIGHWAY & RAILROAD CROSSINGS
n.t.s.

CASING & CARRIER PIPE DETAIL

NOTE:
1. PLACE SPACERS EQUALLY ON CENTER AND A MIN. OF 4 PER JOINT OF PIPE.
2. ALL CARRIER PIPE JOINTS SHALL BE RESTRAINED TO INCLUDE FIRST JOINT OUTSIDE THE CASING.

SECTION "A-A"
NOTE:
1. DEAD MEN SHALL BE SET PRIOR TO THE FIRST JOINT FROM A VALVE UNLESS IT'S END-OF-LINE, THERE SHALL BE A TIE-BACK ASSEMBLY ON EACH SIDE OF VALVE.
2. ALL JOINTS BETWEEN CONCRETE AND VALVE SHALL BE RESTRAINED.
METALLIC LOCATION TAPE AND LOCATOR BALLS SHALL BE INSTALLED FOR ALL MAINS (SEE MARKER BALL INSTALLATION DETAIL)

EXCAVATED TRENCH WIDTH

MATCH FINISH. REFER TO PAVEMENT RESTORATION SPEC.

FINISHED GRADE

BACKCUT OR SLOPE TRENCH PER OSHA REQUIREMENTS WALL TO TOP OF PIPE AS NEEDED FOR EXCAVATIONS.

18"

FINAL BACKFILL

12" OR ONE PIPE DIAMETER

PIPE ZONE (SIDE TAMP)

6" MIN.

UNDISTURBED SOIL

MINIMUM SIDE CLEARANCE

O.D. OF PIPE

12" MIN.

STONE BEDDING TO SPRING LINE (IF REQUIRED)

HAUNCH BACKFILL

SPRING LINE

INITIAL BACKFILL

EMBEDMENT MATERIALS

12" MIN.

12" MIN.

DATE: 1/1/2009

DRAWN BY: DEC

APPROVED BY: TGD

STANDARD PRESSURE PIPE TRENCH

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

NUMBER: G-12-TEBFPP
FINAL BACKFILL
METALLIC LOCATION TAPE SHALL BE INSTALLED FOR ALL MAINS.

EXCAVATED TRENCH WIDTH

MATCH FINISH, REFER TO PAVEMENT RESTORATION SPEC.
FINISHED GRADE

BACKCUT OR SLOPE TRENCH PER OSHA REQUIREMENTS WALL TO TOP OF PIPE AS NEEDED FOR EXCAVATIONS.

12" OR ONE PIPE DIAMETER

PIPE ZONE (SIDE TAMP)

UNDISTURBED SOIL

MINIMUM SIDE CLEARANCE

STONE BEDDING TO SPRING LINE (IF REQUIRED)

O.D. OF PIPE

12" MIN.

12" MIN.

18"

3M LOCATOR BALL

INITIAL BACKFILL

SPRING LINE

HAUNCH BACKFILL

EMBEDMENT MATERIALS

CHARLOTTE COUNTY UTILITIES

STANDARD GRAVITY SEWER PIPE TRENCH

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DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: TGD

PAGE No. GD-14

NUMBER: G-12-TEBFGS
NOTE: MANUAL AIR RELEASE MAY BE USED FOR A BACTERIOLOGICAL SAMPLING POINT WITH A TEMPORARY EXTENSION TO 3' ABOVE GROUND. THIS MUST HAVE CCU APPROVAL OR BE SHOWN ON THE ENGINEERING PLANS. SEE TYPICAL BACTERIOLOGICAL SAMPLE POINT DETAIL.
3/4" - 9-11 GAUGE FLATTENED EXPANDED METAL TO COVER FACE OF GUARD FRAME & SPOT WELDED TO IT AT 6" O.C. TO ALL STRIPS & ANGLES

SEE CRAWL GUARD SIGN DETAIL

1/4" X 3" STEEL STRAP

3" TYP

WELD ALL AROUND

EXPAND METAL

3" X 2" X 3/8" STEEL ANGLE (5) REQ'D

SEE BOLT DETAIL

DUCTILE IRON MAIN VARIABLE SIZE (TO BE WRAPPED IN 1/4" NEOPRENE)

NOTES:
1. FAN GUARDS SHALL BE PLACED AT EACH END OF CANAL CROSSING.
2. FAN GUARD AND HARDWARE SHALL BE PAINTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 00990.
3/4" - 9-11 GAUGE FLATTENED
EXPANDED METAL TO COVER FACE OF
GUARD FRAME & SPOT WELDED TO IT
AT 6" O.C. TO ALL STRIPS & ANGLES

8' - 0"

1/4" x 3" STEEL STRAP

SEE CRAWL GUARD
SIGN DETAIL

3/8" x 4" FLAT BAR

3/4" x 8" DIA. 316 S/S
ANCHOR BOLTS, LOCK
WASHER & NUT

DUCTILE IRON MAIN VARIABLE
SIZE (TO BE WRAPPED IN 1/4"
NEOPRENE)

5/8" x 1 1/2" FLAT BAR

5/8" x 3" 316 ST. ST. FLAT
BAR W/316 ST. ST. BOLT,
NUT AND WASHER.

NOTES:
1. FAN GUARDS SHALL BE PLACED AT EACH END OF
   CANAL CROSSING.
2. FAN GUARD AND HARDWARE SHALL BE PAINTED IN
   ACCORDANCE WITH STANDARD SPECIFICATIONS
   SECTION 00990.
WARNING

WALKING ON PIPE IS DANGEROUS AND PROHIBITED

CHARLOTTE COUNTY UTILITIES

DATE: 11/01/2011

CRAWL GUARD SIGN
CHARLOTTE COUNTY UTILITIES

Provided for informational purposes only. No modifications without written CCU approval.

Drawn by: DEC
Approved by: BRB

ID: GD-18-CGSIGN.dwg
1. ALL WATER MAIN TEXT SHALL BE BLUE IN COLOR AND ON WHITE BACKGROUND.
2. ALL SEWER MAIN TEXT SHALL BE GREEN IN COLOR AND ON WHITE BACKGROUND.
3. ALL RECLAIMED MAIN TEXT SHALL BE PURPLE IN COLOR AND ON WHITE BACKGROUND.
4. SIGN SHALL BE MOUNTED SO IT WILL NOT TURN.
5. SIGN SHALL INCLUDE DEPTH TO MAIN AT SIGN LOCATION.
SIX (6) 3/4" X 3" LAG BOLTS WITH WASHER EVENLY SPACED ON BOARD

3/4" MDO SIGN BOARD

2" X 4" PT

4" X 4" PT

INFORMATION: 764-4300

CONTRACTOR SIGN 2' X 4'
(if desired)

SECTION "A-A"

CCU PROJECT SIGN
CHARLOTTE COUNTY UTILITIES

DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: BRB

ID: GD-20-PS.dwg

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
### WATER DEMAND TALLY BLOCK

<table>
<thead>
<tr>
<th>USE</th>
<th>USAGE FACTOR (SQ. FT., SEATS, BEDS, ETC...)</th>
<th>NUMBER OF UNITS</th>
<th>CONTRIBUTORY FLOW RATE (GPD)</th>
<th>TOTAL DAILY FLOW (TDF) (GPD)</th>
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### METER TALLY BLOCK

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<th>USE</th>
<th>NUMBER OF METERS</th>
<th>SIZE</th>
<th>TOTAL</th>
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### SEWER DEMAND TALLY BLOCK

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<th>NUMBER OF UNITS</th>
<th>CONTRIBUTORY FLOW RATE (GPD)</th>
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**NOTE:**
WATER AND SEWER DEMAND TALLY BLOCKS ARE THE SAME FOR COMMERCIAL DEVELOPMENTS

### RECLAIMED WATER TALLY BLOCK

<table>
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<th>USE</th>
<th>USAGE FACTOR (ACRES / SQ. FT.)</th>
<th>CONTRIBUTORY FLOW RATE (GPD) **</th>
<th>TOTAL DAILY FLOW (TDF) (GPD)</th>
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**1" OF RECLAIMED WATER PER ACRE PER WEEK**

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**TALLY BLOCKS**

CHARLOTTE COUNTY UTILITIES

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

ID: GD-21-TBERC.dwg
SUBAQUEOUS CROSSING
TESTING POINT
CHARLOTTE COUNTY UTILITIES

NOTE:

1. TWO (2) TESTING POINTS REQUIRED ONE ON EACH SIDE OF UPSTREAM VALVE.

2. TESTING POINT SHALL BE LOCATED BETWEEN VALVE AND 1ST AVAILABLE SERVICE CONNECTION.

POLYMER CONCRETE METER BOX WITH H-20 TRAFFIC BEARING LID

FINAL GRADE

BRASS PLUG

2" BRASS BALL VALVE WITH STAINLESS STEEL HANDLE & RUBBER COVER

2" POLY TUBING WITH COMPRESSION FITTINGS AS REQUIRED

EPOXY OR NYLON COATED STAINLESS STEEL DOUBLE STRAP SERVICE SADDLE

BRASS FITTING & BRASS CORP. STOP

MAIN

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SUBAQUEOUS CROSSING
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