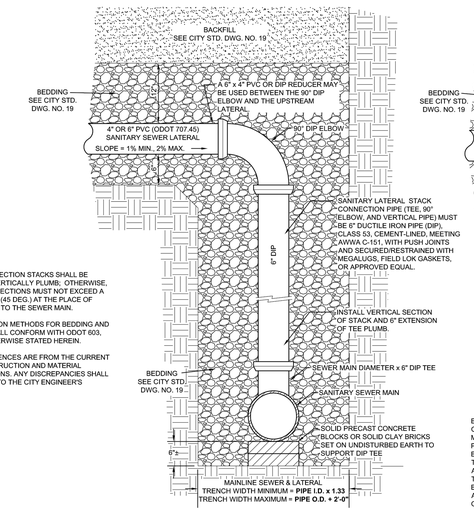
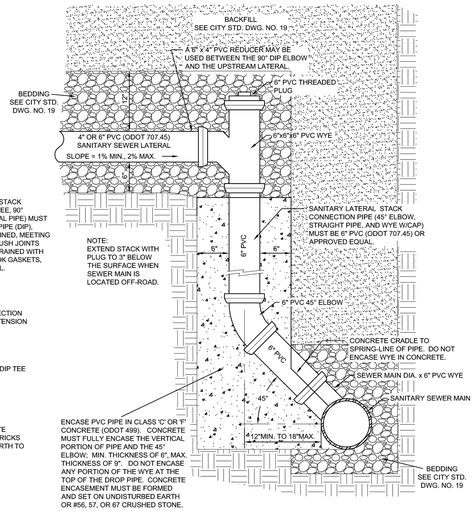
HOUSE CONNECTION STACK, OPTION 1



NOTES:

1. HOUSE CONNECTION STACKS SHALL BE INSTALLED VERTICALLY PLUMB; OTHERWISE, SEWER CONNECTIONS MUST NOT EXCEED A SLOPE OF 1:1 (45 DEG.) AT THE PLACE OF CONNECTION TO THE SEWER MAIN.
2. CONSTRUCTION METHODS FOR BEDDING AND BACKFILL SHALL CONFORM WITH ODOT 603, UNLESS OTHERWISE STATED HEREIN.
3. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

HOUSE CONNECTION STACK, OPTION 2

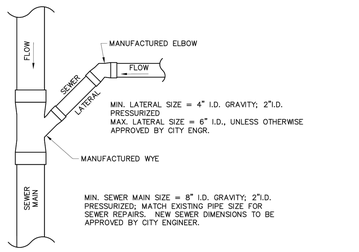


NOTE:
EXTEND STACK WITH PLUG TO 3' BELOW THE SURFACE WHEN SEWER MAIN IS LOCATED OFF-ROAD.

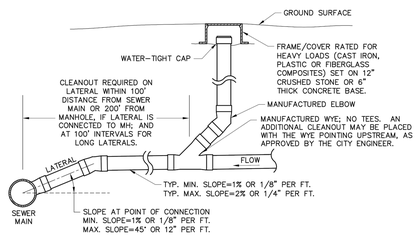
ENCASE PVC PIPE IN CLASS 'C' OR 'F' CONCRETE (ODOT 499). CONCRETE MUST FULLY ENCASE THE VERTICAL PORTION OF PIPE AND THE 45° ELBOW. MIN. THICKNESS OF 6", MAX. THICKNESS OF 9". DO NOT ENCASE ANY PORTION OF THE WYE AT THE TOP OF THE DROP PIPE. CONCRETE ENCASEMENT MUST BE FORMED AND SET ON UNDISTURBED EARTH OR #56, 57, OR 67 CRUSHED STONE.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: JAN 2012 APPROVED BY: CDB, RMB, SLH DRAWING FILE NAME: **ce_18.dwg**	REVISIONS DESCRIPTION / DATE / BY	**STANDARD DRAWING NO. 18** HOUSE CONNECTION STACK **SHEET 1 OF 1**

PLAN VIEW
NOT TO SCALE



SECTION VIEW
NOT TO SCALE



NOTES:

1. SEWER MUST BE LAID IN A MANNER TO MINIMIZE USE OF BENDS. USE TWO 45° BENDS IN LIEU OF 90° BENDS.
2. SEWERS MUST BE BURIED WITH A MINIMUM 36" COVER.
3. IN-LINE PIPE CONNECTIONS BETWEEN EXISTING AND NEW PIPES, 18" INSIDE DIAMETER (I.D.) AND LESS, MAY BE MADE WITH FLEXIBLE COUPLINGS (DEFINED BELOW).
4. NEW WYE CONNECTIONS ON EXISTING SEWER MUST BE MANUFACTURED WYES ON SEWER MAINS 12" I.D. AND LESS. SEWER LATERAL CONNECTION METHOD/TYPE ON MAINS OVER 12" I.D. MUST BE SUBMITTED TO CITY ENGINEER FOR APPROVAL.
5. REDUCERS ARE PERMITTED ON SEWER LATERALS IF THE LARGER DIAMETER PIPE IS DOWNSTREAM OF THE REDUCER. REDUCERS MUST BE MANUFACTURED PVC, VCP, OR DIP REDUCERS; FLEXIBLE REDUCERS ARE SUBECT TO THE APPROVAL OF THE CITY ENGINEER.
6. FOR SEWER LATERAL CONNECTIONS TO MAHNOLES, THE MANHOLE MUST HAVE EITHER A CAST-IN-PLACE OPENING AND GASKET SUITABLE FOR THE PIPE TYPE AND SIZE (SEE CITY STD. DWG. NO. 10, PRECAST SANITARY MANHOLE) OR THE MANHOLE MUST BE MACHINE CORED AND CONNECTION SEALED WATER-TIGHT (SEE CITY STD. DWG. NO. 11, OUTSIDE DROP CONNECTION FOR SANITARY MANHOLE).
7. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

SEWER MAIN AND LATERAL PIPE, BENDS, COUPLINGS:

1. LESS THAN 12' OF COVER: PVC SDR 35, ASTM D 3034 (ODOT 707.45); VITRIFIED CLAY PIPE ASTM ER-4-67; DUCTILE IRON PIPE, CLASS 52, CEMENT AND BITUMASTIC LINED AWWA C151-91.
2. 12' TO 24' OF COVER: PVC SDR 26, ASTM D 3034 (ODOT 707.45); VITRIFIED CLAY PIPE ASTM ER-4-67; DUCTILE IRON PIPE, CLASS 52, CEMENT AND BITUMASTIC LINED AWWA C151-91.
3. GREATER THAN 24' OF COVER: PVC SDR 11, ASTM D 3034 (ODOT 707.45); VITRIFIED CLAY PIPE ASTM ER-4-67; DUCTILE IRON PIPE, CLASS 52, CEMENT AND BITUMASTIC LINED AWWA C151-91.
4. ALL JOINTS MUST BE AIR-TIGHT BELL & SPIGOT OR TONGUE & GROOVE JOINT WITH RESILIENT GASKET.

SEWER MAIN AND LATERAL FLEXIBLE COUPLINGS:

1. ELASTOMERIC PVC WITH STAINLESS STEEL SHIELD AND BANDS, FERNCO STRONG BACK RC OR 5000 SERIES RC, OR APPROVED EQUAL.

BEDDING AND BACKFILL

1. BEDDING AND BACKFILL OF SEWERS MUST COMPLY WITH STANDARD DWG. NO. 19, UTILITY TRENCH REQUIREMENTS.

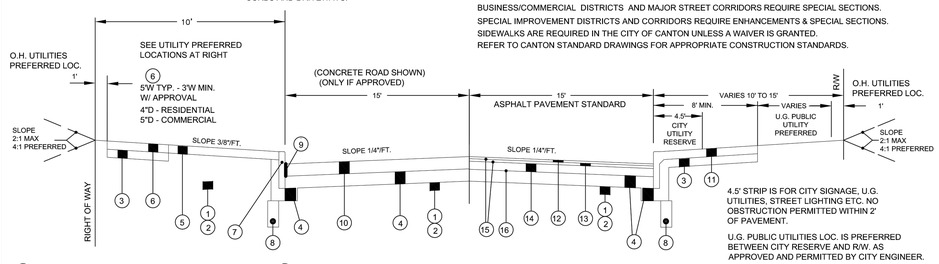
OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAR 2014 APPROVED BY: RMB DRAWING FILE NAME: **ce_20.dwg**	REVISIONS DESCRIPTION / DATE / BY	**STANDARD DRAWING NO. 20** SANITARY SEWERS & LATERALS **SHEET 1 OF 1**

GENERAL CRITERIA

ODOT REFERENCES ARE 2008 CMS - CROSS REFERENCE TO CURRENT CMS AT TIME OF CONSTRUCTION. (M) DENOTES CANTON MODIFICATION TO CMS AS NOTED.

ALL CURB AND WALK CONSTRUCTION TO CONFORM TO CITY OF CANTON 2008 SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR AND REPLACING OF SIDEWALKS, CURBS AND DRIVEWAYS.

PAVEMENT WIDTHS ARE TRADITIONALLY AND TYPICALLY 3/5THS THE RIGHT OF WAY WIDTH
LANE WIDTHS ARE 12 FT. TYP. AND PARKING WIDTHS ARE 8 FT. TYPICAL (2' - 3' APRON EA. SIDE)
BY ORD. - MIN. 28 FT. PAVEMENT REQUIRED FOR PARKING I-SIDE - 32 FT. PREFERRED.
BUSINESS/COMMERCIAL DISTRICTS AND MAJOR STREET CORRIDORS REQUIRE SPECIAL SECTIONS.
SPECIAL IMPROVEMENT DISTRICTS AND CORRIDORS REQUIRE ENHANCEMENTS & SPECIAL SECTIONS.
SIDEWALKS ARE REQUIRED IN THE CITY OF CANTON UNLESS A WAIVER IS GRANTED.
REFER TO CANTON STANDARD DRAWINGS FOR APPROPRIATE CONSTRUCTION STANDARDS.



1. 203 - EXCAVATION & EMBANKMENT
2. 204 - SUBGRADE COMPACTION
3. 304 - 4" AGGREGATE BASE
4. 304 - 6" AGGREGATE BASE
   (M) TYP. - NO FOUNDRY SAND, ACBFS, GRANULATED SLAG OR OTHER SLAG PERMITTED IN 304 BASE
5. 659 - 4" TOPSOIL / SEED / MULCH
   CLASS 1 LAWN MIX
   1 YR. WARRANTY - 90% GERMINATION
6. 608 - CONC. WALK (UNLESS VARIANCE GRANTED)
   (M) TYP. - CLASS "C" #57 OR 67 LIMESTONE
   OPTION 1 MAY 1 TO OCT. 15 ONLY
   STEEL FORMS ONLY - SEE 2008 CITY SPECS.
   FOR CURB / WALK CONST.
7. 609 - CONC. CURB - CITY STD. 30 OR ODOT TYPE 6
   (M) TYP. - CLASS "C" #57 OR 67 LIMESTONE
   OPTION 1 MAY 1 TO OCT. 15 ONLY
   STEEL FORMS ONLY - SEE 2008 CITY SPECS.
   FOR CURB / WALK CONST.
8. 605 - 4" PIPE UNDERDRAIN - (M) TYP. - N0. 8 STONE BEDDING (NO ACBFS) - FILTER SLEEVE - AS DIRECTED
9. 705.03 - 1/2" PREFORMED JOINT W/ SEALER
10. 452 - 6" PLAIN PORTLAND CEMENT PAVEMENT
    CLASS "C" - LIMESTONE AGG. ONLY
    OPTION 1 MAY 1 TO OCT. 15 ONLY
11. 608 - CONC. WALK - CITY STD. 29 TYPE III
    (M) TYP. - CLASS "C" #57 OR 67 LIMESTONE
    OPTION 1 MAY 1 TO OCT. 15 ONLY
    STEEL FORMS ONLY - SEE 2008 CITY SPECS.
    FOR CURB / WALK CONST.
12. 448 1-1/4" ASPHALTIC CONC. SURFACE COURSE TYPE I
13. 448 1-3/4" ASPHALTIC CONC. INTERMEDIATE COURSE TYPE I
14. 301 4" ASPHALT BASE
15. 407 TACK COAT (USE RUBBERIZED TACK FOR ASPHALT OVER CONC. PAVEMENT)
16. 408 PRIME COAT

NOTE 11. LAWN STRIPS LESS THAN 3.5' WIDE ARE NOT PERMITTED UNLESS APPROVED BY THE ENGINEER. COMBINED CURB/WALK IS STANDARD IN THIS INSTANCE. USE TYP. 5' WALK SHOWN LEFT IF 3.5' MIN. IS MET.

4.5' STRIP IS FOR CITY SIGNAGE, U.G. UTILITIES, STREET LIGHTING ETC. NO OBSTRUCTION PERMITTED WITHIN 2' OF PAVEMENT.

U.G. PUBLIC UTILITIES LOC. IS PREFERRED BETWEEN CITY RESERVE AND R/W. AS APPROVED AND PERMITTED BY CITY ENGINEER.

READ FOR ALL STREET CONSTRUCTION AND IMPROVEMENT THE OWNER/DEVELOPER SHALL PROVIDE A TYPICAL SECTION PREPARED BY A PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th STREET N.E. 44705 (330)489-3381	**STANDARD DRAWING NO. 32** MINIMUM PAVEMENT STANDARDS FOR LOCAL STREET	REVISIONS DESCRIPTION / DATE / BY GENERAL REVISIONS / 11/09 / RC GENERAL REVISIONS / 06/10 / MM GENERAL REVISIONS / 10/12/11 / CDB	DRAWN BY: OWG APP'D BY: RMB FIELD BK: DWG# ce_32.DWG	DATE: APR 2009 H. SCALE: 1" = 5' V. SCALE: N/A SHEET 1 OF 1

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LANDSCAPE ARCHITECTURE + URBAN PLANNING

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client / owner
City of Canton

project name
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project address
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INDEPENDENCE, OH 44131
p 440.349.2000 |ATWELL-GROUP.COM

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p 614.866.2868 |TECSTUDIOINC.COM

water feature
SOUTHERN AQUATICS, INC.
150 HILDEN RD
SUITE 305
PONTE VEDRA BEACH, FL 32081
p 904.824.1110 |SAIFOUNTAINS.COM

BID SET
Not For Construction

revision	date	issued
1	06/14/2019	ADDENDUM #1
2	06/19/2019	ADDENDUM #2

seal

issue date 06.19.2019
project number c18514

sheet name
STANDARD DETAILS

sheet number
C6.00