SANITARY SEWER IMPROVEMENTS
MAPLE COURT AND OLD MILL COURT

DEPARTMENT OF WATER POLLUTION CONTROL
36 DRAKE HILL ROAD
SIMSBURY, CONNECTICUT

Survey Prepared By:

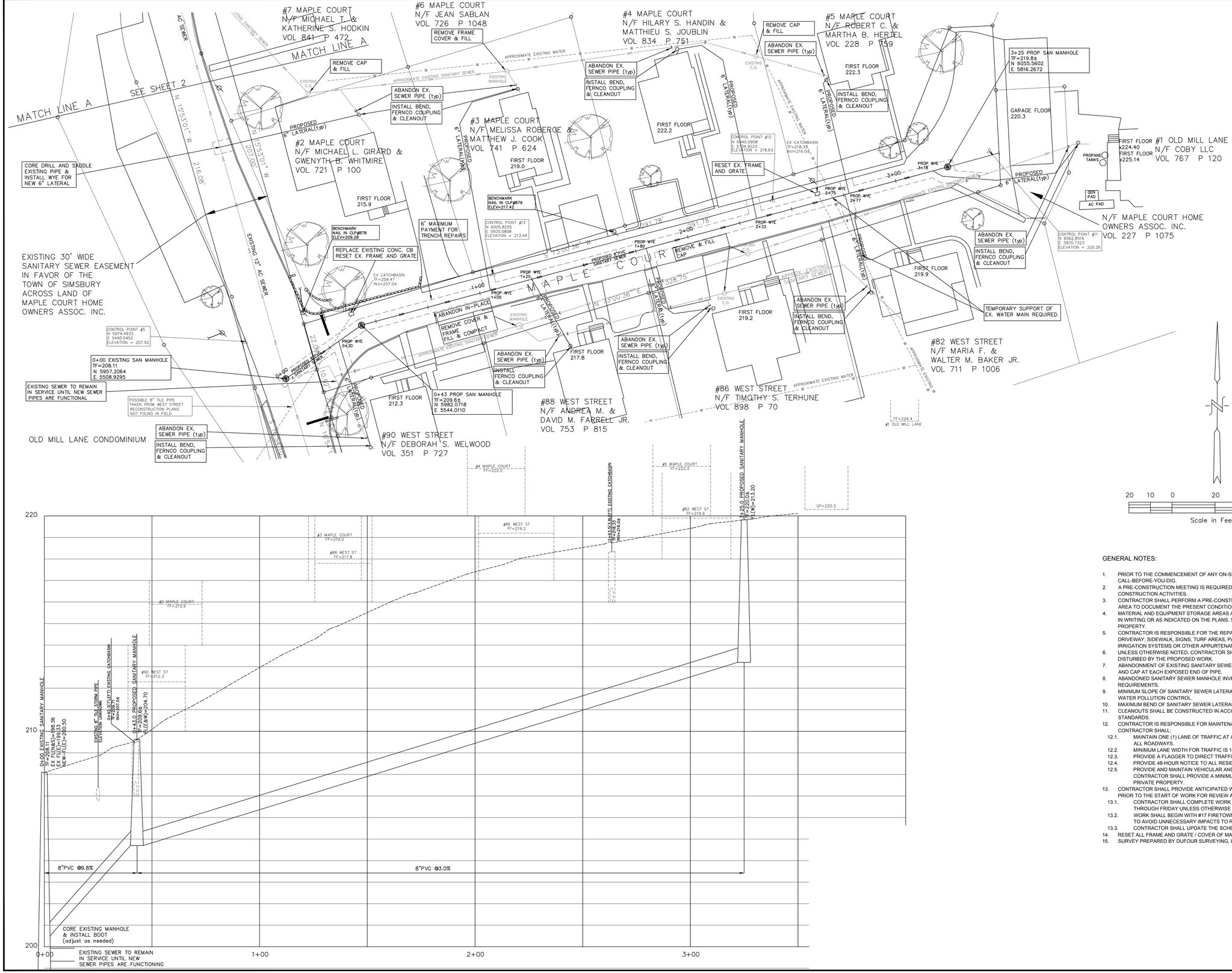
DUFOUR SURVEYING LLC
575 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-314-0502 860-738-0222

PROJECT NO. SP 62-14/15

DATE: JULY 10, 2017

Design Prepared By:

SIMSBURY ENGINEERING DEPT.
933 HOPMEADOW STREET
SIMSBURY, CONNECTICUT 06070
860-658-3260



GENERAL NOTES:

1. PRIOR TO THE COMMENCEMENT OF ANY ON-SITE ACTIVITIES, CONTRACTOR MUST CONTACT CALL-BEFORE-YOU-DIG.
2. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION PHOTOGRAPHIC SURVEY OF THE WORK AREA TO DOCUMENT THE PRESENT CONDITION OF AREAS THAT MAY BE IMPACTED BY THE PROJECT.
4. MATERIAL AND EQUIPMENT STORAGE AREAS ARE LIMITED TO AREAS PRE-APPROVED BY THE TOWN IN WRITING OR AS INDICATED ON THE PLANS. STORAGE AREAS ARE PROHIBITED ON PRIVATE PROPERTY.
5. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND/OR RESTORATION OF ANY ROAD, CURB, DRIVEWAY, SIDEWALK, SIGNS, TURF AREAS, PATIO AREAS, RETAINING WALLS, MAILBOXES IRRIGATION SYSTEMS OR OTHER APPURTENANCES THAT ARE DISTURBED DURING CONSTRUCTION.
6. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL RESTORE ALL TURF AND LANDSCAPING DISTURBED BY THE PROPOSED WORK.
7. ABANDONMENT OF EXISTING SANITARY SEWER SHALL CONSIST OF A MINIMUM 2' LENGTH OF GROUT AND CAP AT EACH EXPOSED END OF PIPE.
8. ABANDONED SANITARY SEWER MANHOLE INVERTS SHALL BE BRICK AND MORTARED PER WPCA REQUIREMENTS.
9. MINIMUM SLOPE OF SANITARY SEWER LATERALS SHALL BE 2% UNLESS OTHERWISE AUTHORIZED BY WATER POLLUTION CONTROL.
10. MAXIMUM BEND OF SANITARY SEWER LATERALS SHALL BE 45°.
11. CLEANOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WATER POLLUTION CONTROL STANDARDS.
12. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC. AT A MINIMUM, CONTRACTOR SHALL:
    - 12.1. MAINTAIN ONE (1) LANE OF TRAFFIC AT ALL TIMES FOR ALTERNATING ONE-WAY TRAFFIC ON ALL ROADWAYS.
    - 12.2. MINIMUM LANE WIDTH FOR TRAFFIC IS 10'.
    - 12.3. PROVIDE A FLAGGER TO DIRECT TRAFFIC IN A SAFE AND CONTROLLED MANNER.
    - 12.4. PROVIDE 48-HOUR NOTICE TO ALL RESIDENTS OF ANTICIPATED LANE OR ROAD CLOSURE.
    - 12.5. PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO ALL PRIVATE PROPERTY. CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO ALL RESIDENTS TO WORK ON PRIVATE PROPERTY.
13. CONTRACTOR SHALL PROVIDE ANTICIPATED WORK SCHEDULE TO THE OWNER TWO (2) WEEKS PRIOR TO THE START OF WORK FOR REVIEW AND COMMENT.
    - 13.1. CONTRACTOR SHALL COMPLETE WORK BETWEEN THE HOURS OF 7:00 AM TO 3:30 PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE AUTHORIZED BY THE OWNER.
    - 13.2. WORK SHALL BEGIN WITH #17 FIRETOWN ROAD (SEE SHEET 2) AND PROGRESS DOWNSTREAM TO AVOID UNNECESSARY IMPACTS TO RESIDENTS.
    - 13.3. CONTRACTOR SHALL UPDATE THE SCHEDULE ON A WEEKLY BASIS.
14. RESET ALL FRAME AND GRATE / COVER OF MANHOLES WITHIN PAVING LIMITS.
15. SURVEY PREPARED BY DUFOUR SURVEYING, LLC.

NO.	REVISION	DATE	BY

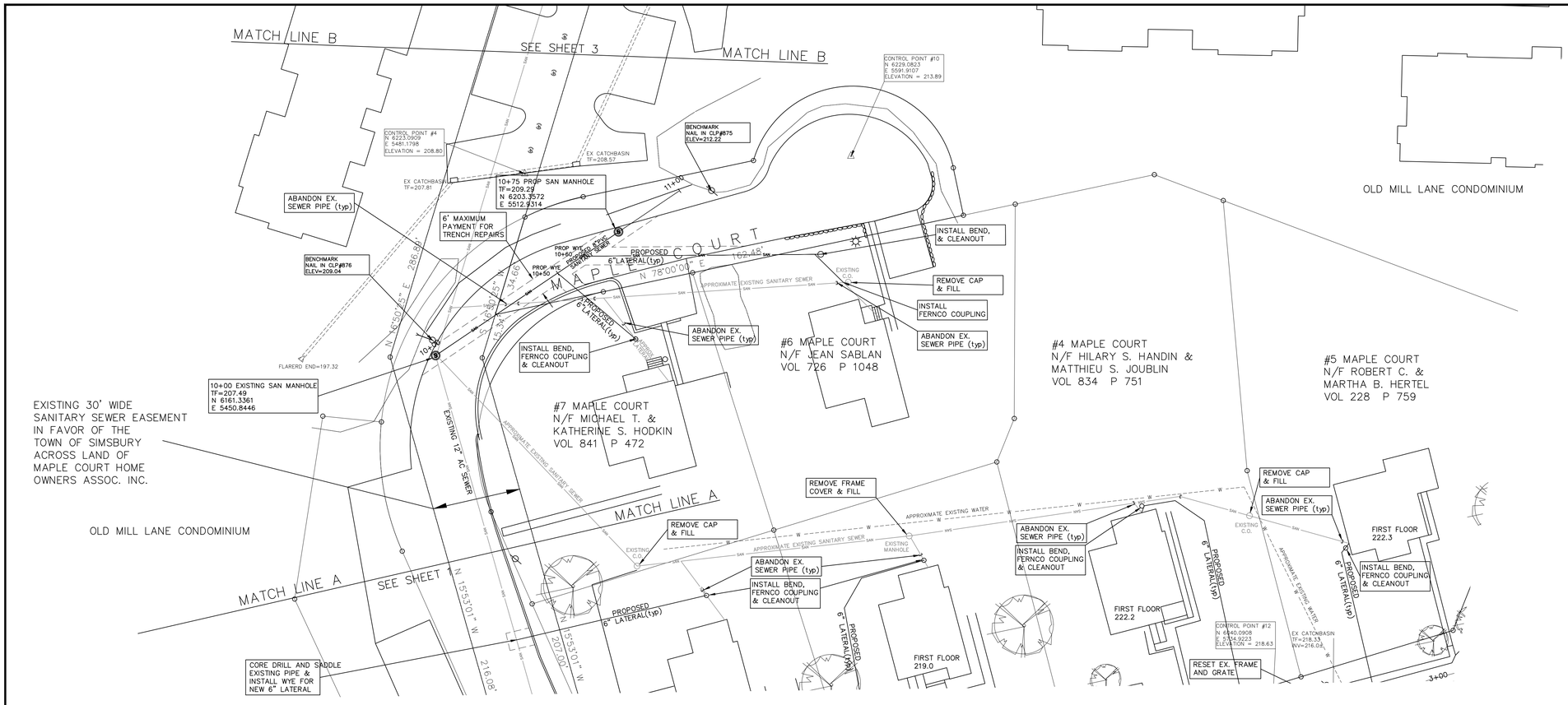
TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

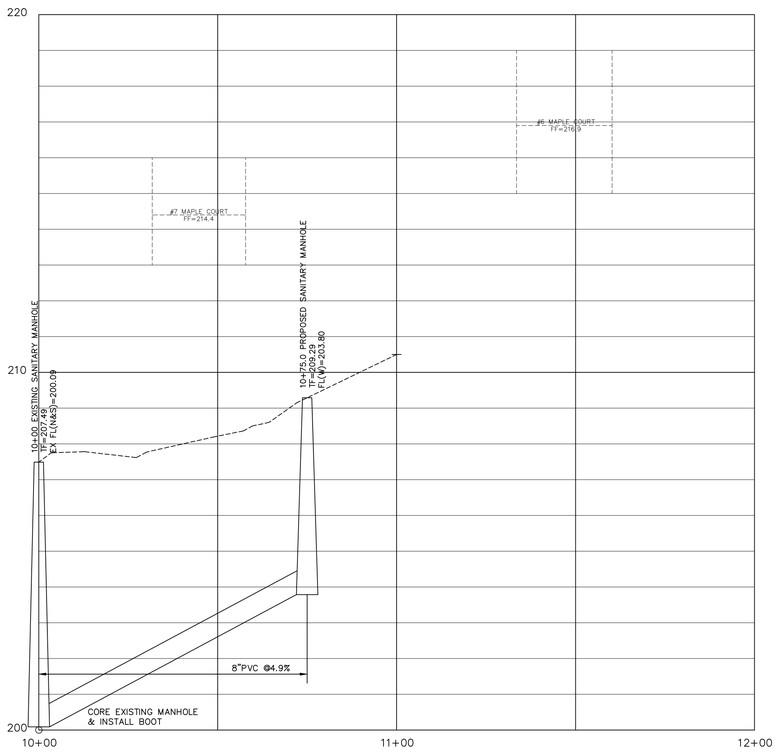
PROPOSED SANITARY SEWER MAPLE COURT

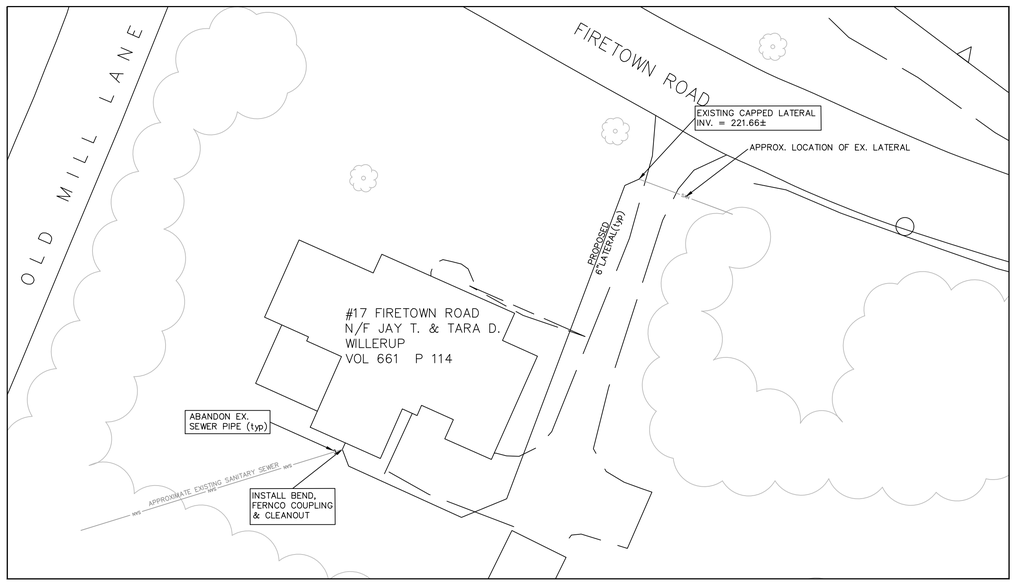
PLAN AND PROFILE

DRAWN BY: ADK	CHECKED BY: JFS
DATE: JULY 6, 2017	SCALE: 1" = 20"

SHEET 1







PROPOSED SANITARY SEWER LATERAL
#17 FIRETOWN ROAD

NO.	REVISION	DATE	BY

TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

PROPOSED SANITARY SEWER
MAPLE COURT

PLAN AND PROFILE

DRAWN BY: ADK	CHECKED BY: JFS
DATE: JUL Y 6, 2017	SCALE: 1" = 20"

SHEET
2

OLD MILL LANE CONDOMINIUM

#85 FIRETOWN ROAD
N/F GEORGE P. McLEAN ESTATE
VOL 44 P 363

#9 OLD MILL LANE
N/F JOHN M. &
LILLIE H. FEIERABEND
VOL 375 P 553

WATER GATE VALVES (typ)

S 72°42'55" E
324.97'

OLD MILL COURT

PROPOSED 30' WIDE
SANITARY SEWER EASEMENT
IN FAVOR OF THE
TOWN OF SIMSBURY
16,478 SQ. FT.
0.38 ACRES

N 72°42'55" W
326.23'

CONTROL POINT #2
N 6351.6190
E 5758.1910
ELEVATION = 223.38

EX CATCHBASIN
TF=223.23
FL(E)=215.63
FL(W)=215.33

20+00 EXISTING SAN MANHOLE
TF=224.00
N 6329.0698
E 5841.2991

PROPOSED 8"PVC SANITARY SEWER

S 85°39'30" E
64.27'

N 85°39'30" W
62.59'

6' MAXIMUM PAYMENT FOR TRENCH REPAIRS

PROPOSED 6"PVC LATERAL

APPROXIMATE EXISTING SANITARY SEWER

INSTALL FERNCO COUPLING & CLEANOUT

ABANDON EX. SEWER PIPE (typ)

TEMP. SUPPORT OF EX. WATER MAIN REQUIRED

FIRST FLOOR
227.85±

APPROXIMATE LOCATION EXISTING SANITARY SEWER

PROP WYE 21+32

PROP WYE 21+34

21+40

S 84°25'58" E
161.77'

EX CATCHBASIN
TF=222.16
FL(S)=218.46

APPROXIMATE LOCATION EXISTING WATER LINE

EXISTING SEWER

ABANDON EX. SEWER PIPE (typ)

15"RCP

N 86°29'58" W
156.69'

21+40 PROP SAN MANHOLE
TF=223.1±
N 6295.28
E 5977.16

SEE SHEET 2

OLD MILL LANE CONDOMINIUM

PROPOSED 6"PVC LATERAL

EX CATCHBASIN
TF=222.15
FL(N)=218.35
FL(W)=218.35

#5 OLD MILL LANE
N/F RAYSA LLC
VOL 896 P 652

FIRST FLOOR
225.89±

INSTALL BEND, FERNCO COUPLING & CLEANOUT

ABANDON EX. SEWER PIPE (typ)

EXISTING MANHOLE

ABANDON IN PLACE IN PLACE

REMOVE COVER & FRAME FILL & COMPACT

APPROXIMATE EXISTING SANITARY SEWER

OLD MILL LANE

DRIVEWAY

CONC. WALK

PAVED WALK

CLP 487

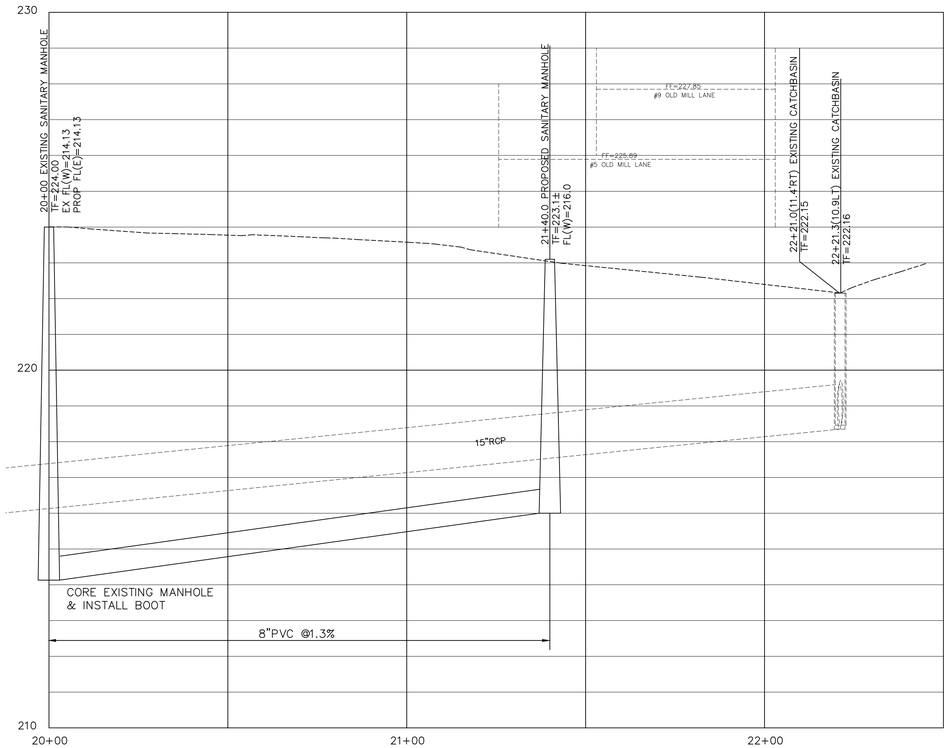
CLP 488

TC SIGN

CONTROL POINT #1
N 6251.0038
E 6096.6734
ELEVATION = 223.56

APPROXIMATE LOCATION EXISTING SANITARY SEWER

20 10 0 20 40 60
Scale in Feet



NO.	REVISION	DATE	BY

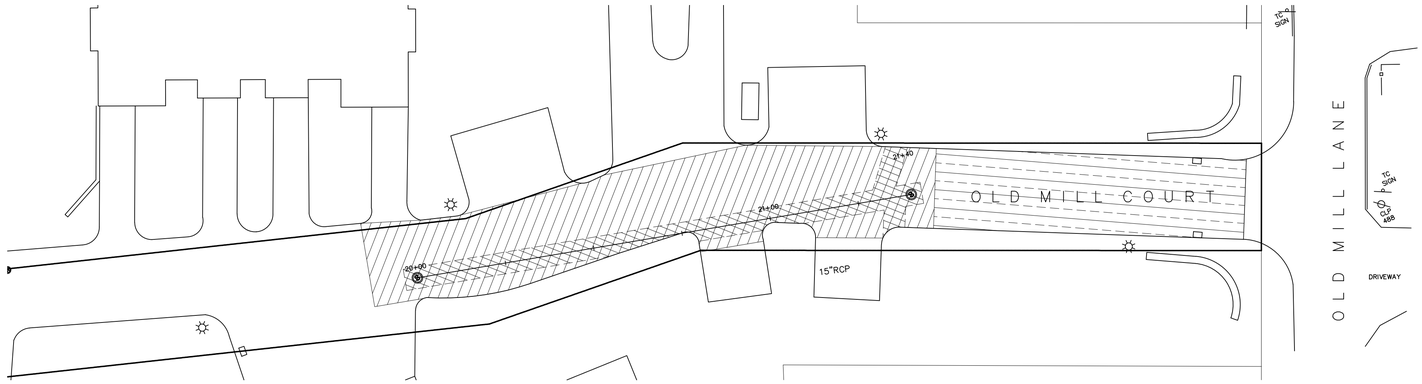
TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

PROPOSED SANITARY SEWER OLD MILL LANE

PLAN AND PROFILE

DRAWN BY: ADK	CHECKED BY: JFS
DATE: JULY 6, 2017	SCALE: 1" = 20"

SHEET
3



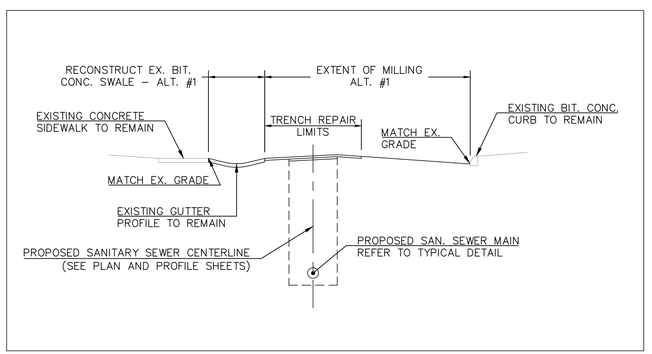


BASE BID:
PERMANENT TRENCH REPAIR PER TOWN STANDARD

ALTERNATE #1:
1-1/2" MILL AND OVERLAY EXISTING PAVEMENT

ALTERNATE #2:
1-1/2" MILL AND OVERLAY EXISTING PAVEMENT

40 20 0 40 80 120
Scale in Feet



MAPLE COURT SECTION A–A
N.T.S.

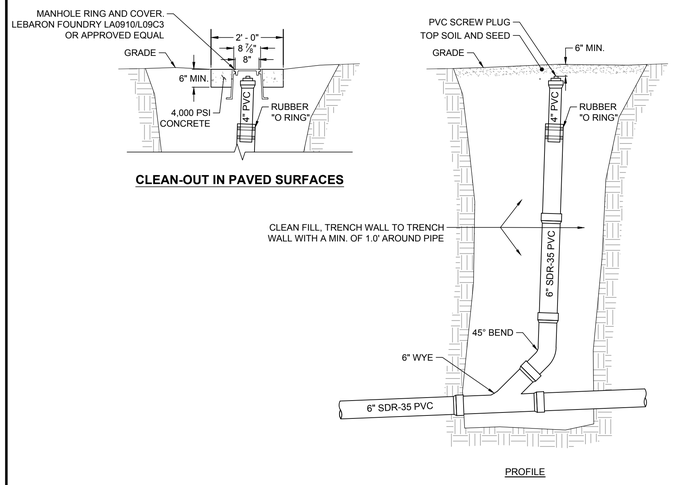
NO.	REVISION	DATE	BY

TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

LIMIT OF PAVING MAPLE COURT SANITARY SEWER

DRAWN BY: ADK	CHECKED BY: JFS
DATE: MAY 23, 2017	SCALE: 1" = 40'

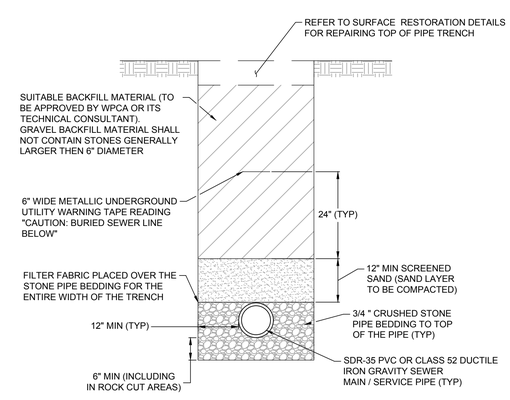
SHEET
4



CLEAN-OUT IN PAVED SURFACES

CLEAN-OUT ASSEMBLY TO GRADE

N.T.S.

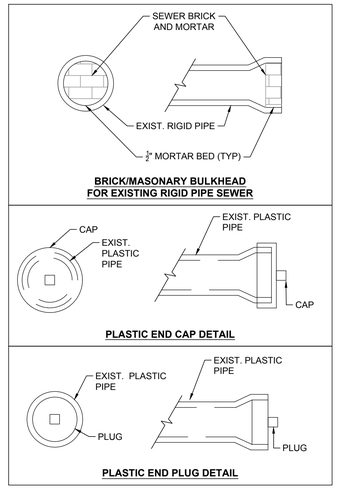


STANDARD NOTES:

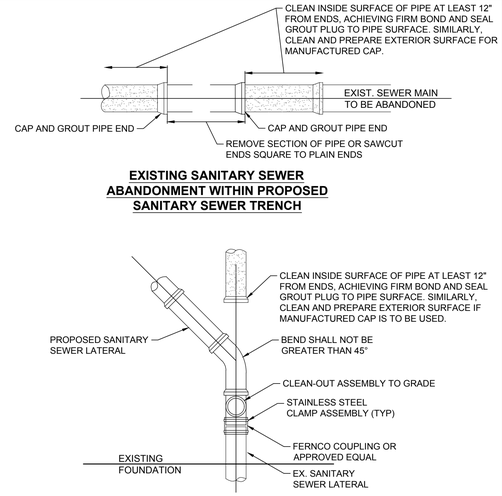
1. THE 12" SAND LAYER OVER THE PIPE SHALL BE PROPERLY COMPACTED.
2. STONE BEDDING, FILTER FABRIC, AND SAND LAYER SHALL BE EXTENDED TO THE FULL WIDTH OF THE TRENCH.
3. MECHANICAL COMPACTION SHALL BE USED IN APPROPRIATE LIFTS TO OBTAIN A MINIMUM OF 95% MODIFIED PROCTOR DENSITY.

PVC/DUCTILE IRON GRAVITY SANITARY SEWER MAIN / SERVICE TRENCH

N.T.S.

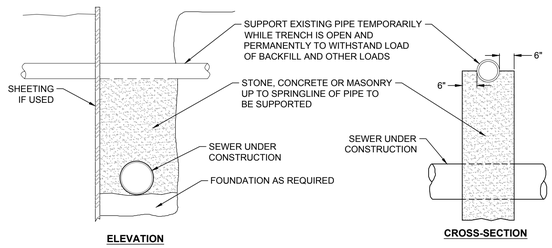


END DETAILS FOR ABANDONED LATERALS

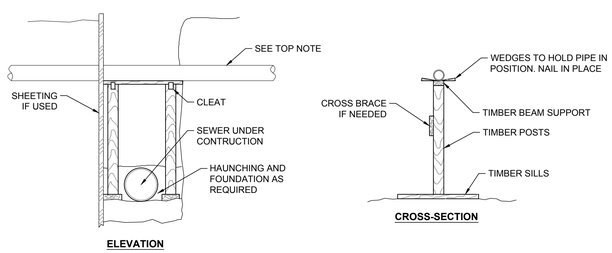


EXISTING SANITARY SEWER CONNECTION AND ABANDONMENT

N.T.S.



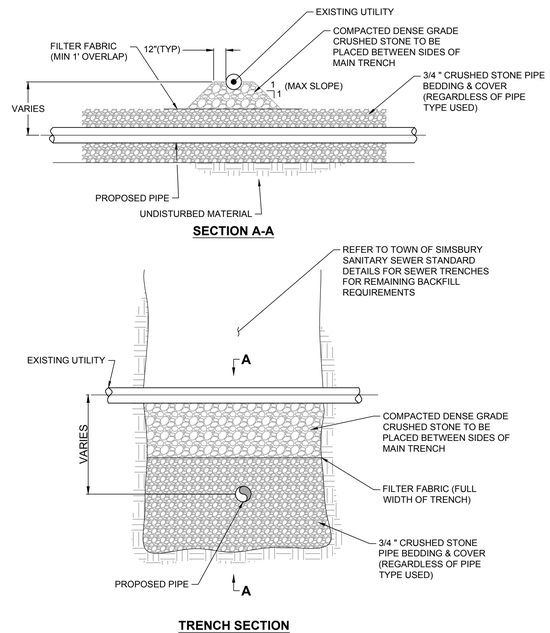
PIER AT SEWERS AND DRAINS



TIMBER PIPE SUPPORTS

TEMPORARY SUPPORT OF EXISTING UTILITIES ACROSS SEWER TRENCHES

N.T.S.

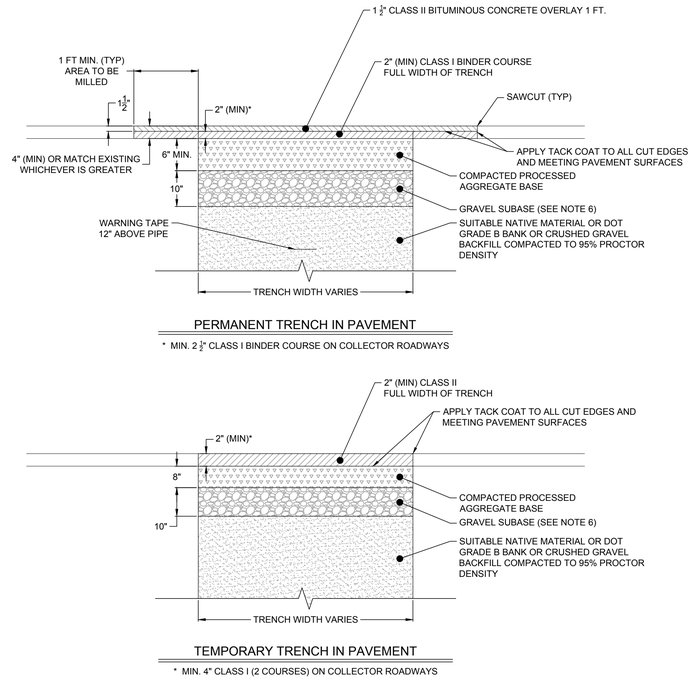


STANDARD NOTES:

1. PLACE 6" UNDERGROUND UTILITY WARNING TAPE UNDER THE EXISTING UTILITY REGARDLESS OF THE DISTANCE BETWEEN THE PIPES. IF LESS THE 2' BETWEEN THE PIPES, PROVIDE AN ADDITIONAL LAYER OF WARNING TAPE ABOVE THE EXISTING PIPE.
2. PROVIDE THE APPROPRIATE UNDERGROUND UTILITY WARNING TAPE OVER THE EXISTING UTILITY PIPE THAT HAS BEEN DISTURBED DURING INSTALLATION OF THE SANITARY SEWER. PROVIDE WARNING TAPE REGARDLESS IF EXISTING TAPE WAS NOT DISCOVERED.

PIPE SUPPORT UTILITY CROSSING

N.T.S.



GENERAL NOTES:

1. PAVEMENT SHALL BE SAW-CUT UPON COMPLETION OF BACKFILL AND COMPACTION. TACK COAT SHALL BE APPLIED AND TEMPORARY PAVEMENT PLACED AND COMPACTED.
2. PERMANENT PAVEMENT PATCH TO BE COMPLETED 6 TO 9 MONTHS AFTER CONSTRUCTION OF TEMPORARY PAVEMENT PATCH. THIS WORK IS TO BE COORDINATED WITH ENGINEERING DEPARTMENT.
3. FOR PERMANENT PATCH, EXISTING ROAD (AND TEMPORARY PATCH) SHALL BE MILLED TO A DEPTH OF 1 ½" FOR THE WIDTH OF THE TRENCH AND DISTANCE OF 3 FT OUTSIDE OF SAW-CUT EDGE. IF THE MILLING LIMIT IS WITHIN 5 FT OF THE EDGE OF ROAD AND/OR CENTERLINE, LIMITS OF MILLING SHALL EXTEND TO EDGE OF ROAD AND/OR CENTERLINE. NEW PAVEMENT THICKNESS TO BE 3 ½" MIN. (4" ON COLLECTOR ROADS) OR MATCH EXISTING PAVEMENT THICKNESS - WHICHEVER IS GREATER.
4. WITHIN LIMITS OF CONNECTICUT STATE HIGHWAYS, CONNDOT REQUIREMENTS SHALL GOVERN FOR PAVEMENT, BASE AND RELATED SPECIFICATIONS.
5. THE TOWN WILL REQUIRE INFRARED METHODS FOR PERMANENT TRENCH RESTORATION IF ROADWAY HAS BEEN RESURFACED WITHIN THE LAST THREE (3) YEARS.
6. PROCESSED AGGREGATE CAN BE SUBSTITUTED FOR GRAVEL SUBBASE.
7. CALL BEFORE YOU DIG: 811 OR 1-800-922-4455.

TRENCH REPAIR DETAIL (MAPLE COURT SEWER UPGRADE PROJECT)

N.T.S.

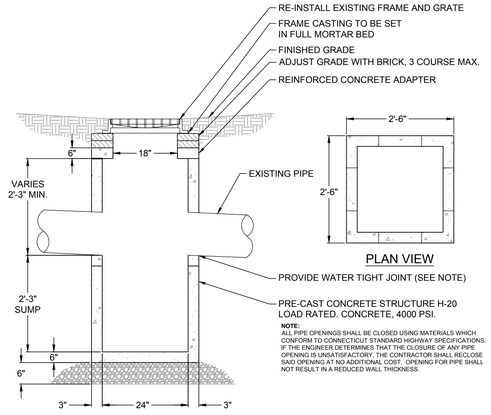
NO.	REVISION	DATE	BY

TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

STANDARD SANITARY SEWER DETAILS
MAPLE COURT SEWER UPGRADE PROJECT

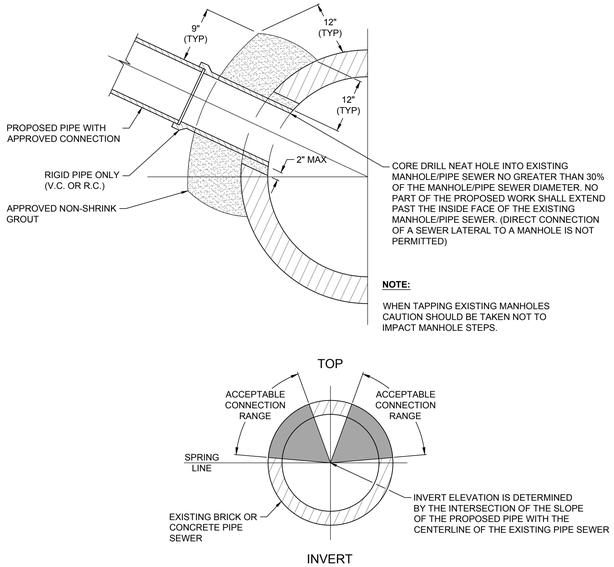
DRAWN BY: ADK	CHECKED BY: JFS
DATE: JULY 6, 2017	SCALE: NTS

Det-1



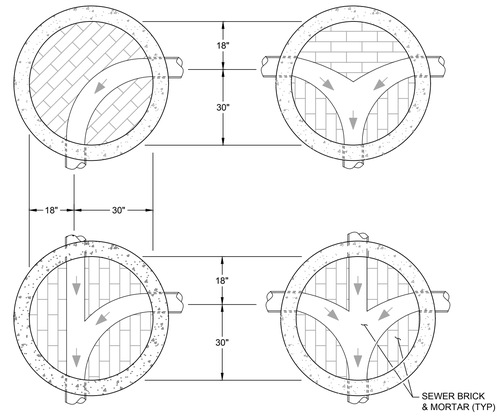
CATCH BASIN RECONSTRUCTION

N.T.S.



MANHOLE / PIPE SEWER ZONE CONNECTION

N.T.S.



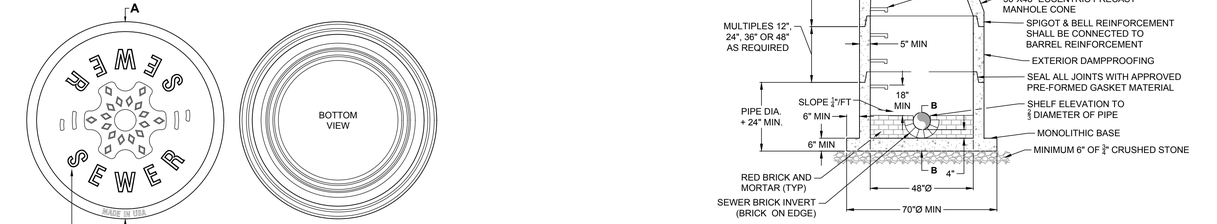
STANDARD NOTES:

1. DIMENSIONS SHOWN FOR STANDARD 48" DIAMETER MANHOLES AND GRAVITY SEWER CONSTRUCTION.

2. MAXIUM CHANGE IN DIRECTION FOR FLOW STREAM SHALL BE 90 DEGREES.

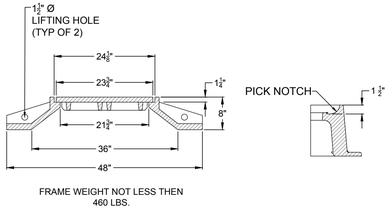
STANDARD MANHOLE INVERTS

N.T.S.



SECTION A-A

COVER

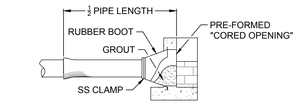


FRAME WEIGHT NOT LESS THEN 460 LBS.

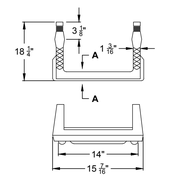
FRAME

SANITARY SEWER FRAME AND COVER

N.T.S.



Section B-B



STANDARD MANHOLE RUNG

STANDARD NOTES:

1. FLAT SLAB MANHOLE TOPS SHALL NOT BE USED UNLESS AUTHORIZED BY THE WPCA OR ITS TECHNICAL CONSULTANT.

2. ALUMINUM MANHOLE STEPS ARE NOT ACCEPTABLE.

3. THE MINIMUM ELEVATION DROP FROM INVERT IN TO INVERT OUT SHALL BE 0.10 FEET.

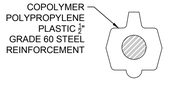
4. GROUT THE ENTIRE INSIDE AND OUTSIDE SURFACES OF ALL MANHOLE SECTION JOINTS.

5. RUBBER PLUGS TO BE USED INSIDE MANHOLE SECTION LIFTING HOLES. GROUT THE INSIDE AND OUTSIDE SURFACES OF THE LIFTING HOLES.

6. ROCK TO BE EXCAVATED 10 FEET BEYOND THE WALLS OF THE MANHOLE.

7. WHERE MANHOLES ARE INSTALLED IN CROSS COUNTRY EASEMENT AREAS, THE FRAMES AND COVERS SHALL BE 6" TO 12" ABOVE FINISHED GRADE.

8. INTERIOR MANHOLE LINING SYSTEM TO BE USED AT ALL FORCE MAIN AND LOW PRESSURE SEWER DISCHARGE STRUCTURES.



SECTION A-A

MANHOLE (SANITARY SEWER)

N.T.S.

NO.	REVISION	DATE	BY

TOWN OF SIMSBURY
ENGINEERING DEPARTMENT
933 HOPMEADOW STREET
SIMSBURY CONNECTICUT

STANDARD SANITARY SEWER DETAILS
MAPLE COURT SEWER UPGRADES

DRAWN BY: ADK	CHECKED BY: JFS
DATE: JULY 6, 2017	SCALE: NTS

Det-2