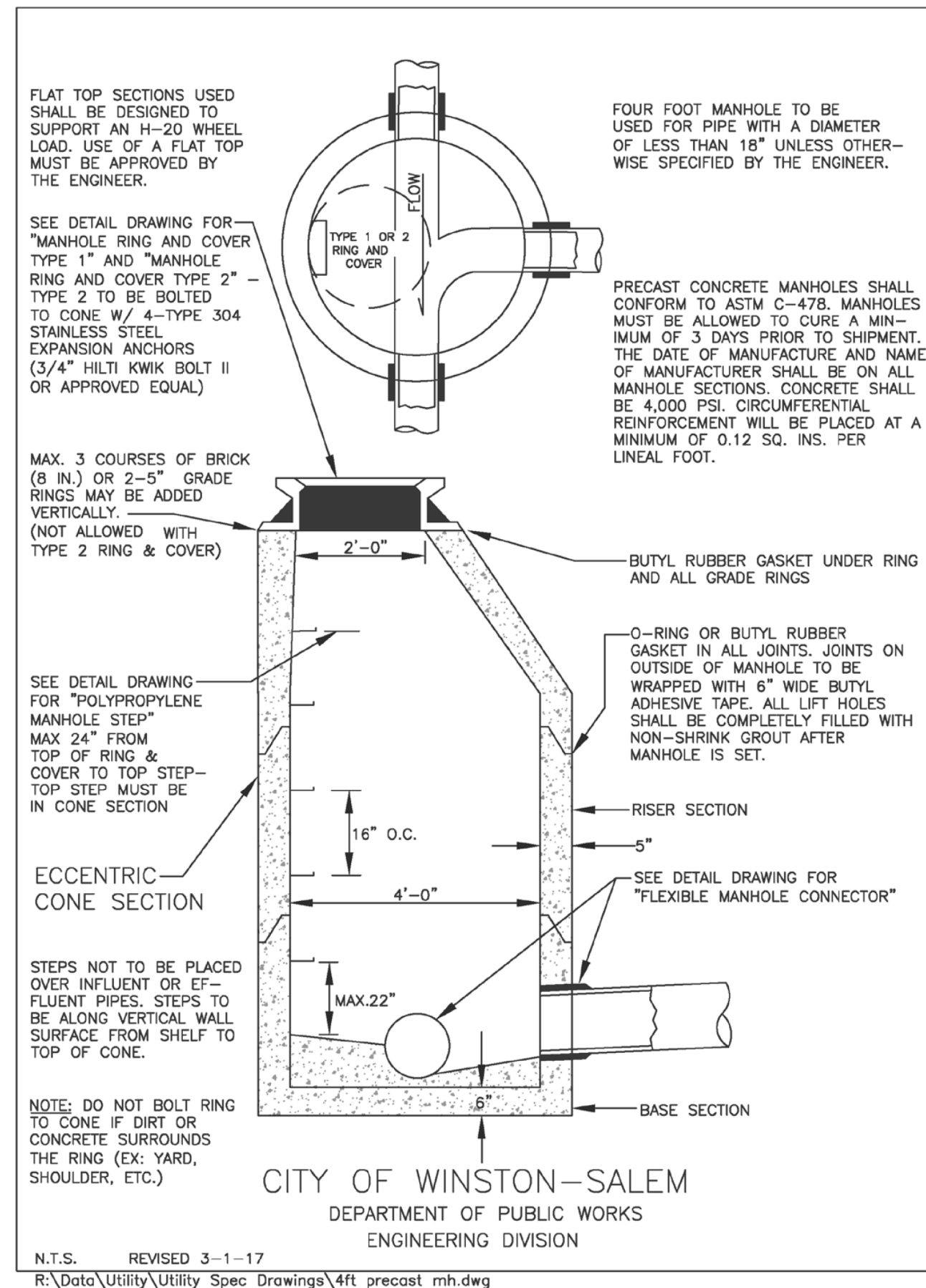


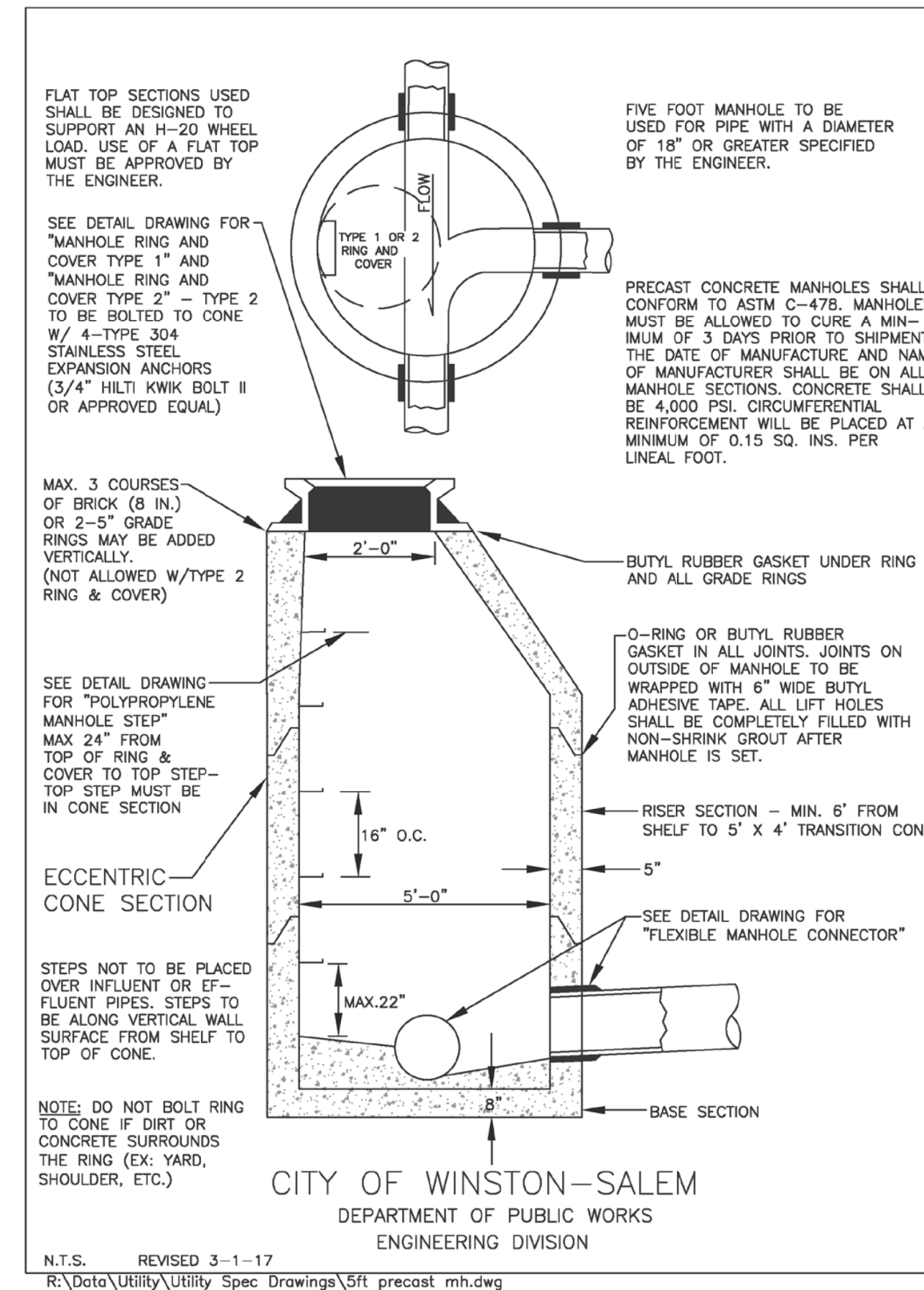
5/14/99

4' Precast Reinforced Concrete Manhole



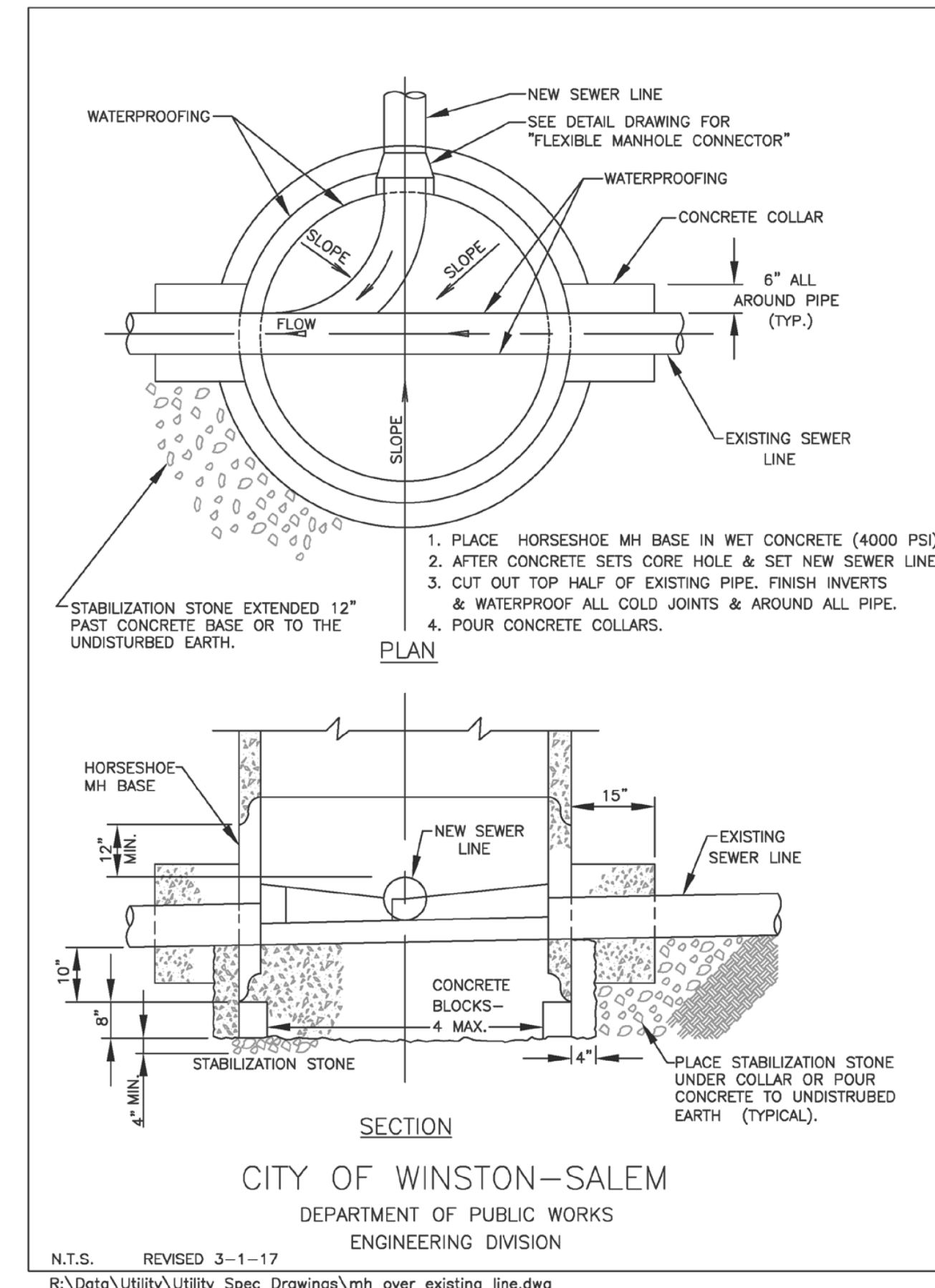
C-10

5' Precast Reinforced Concrete Manhole



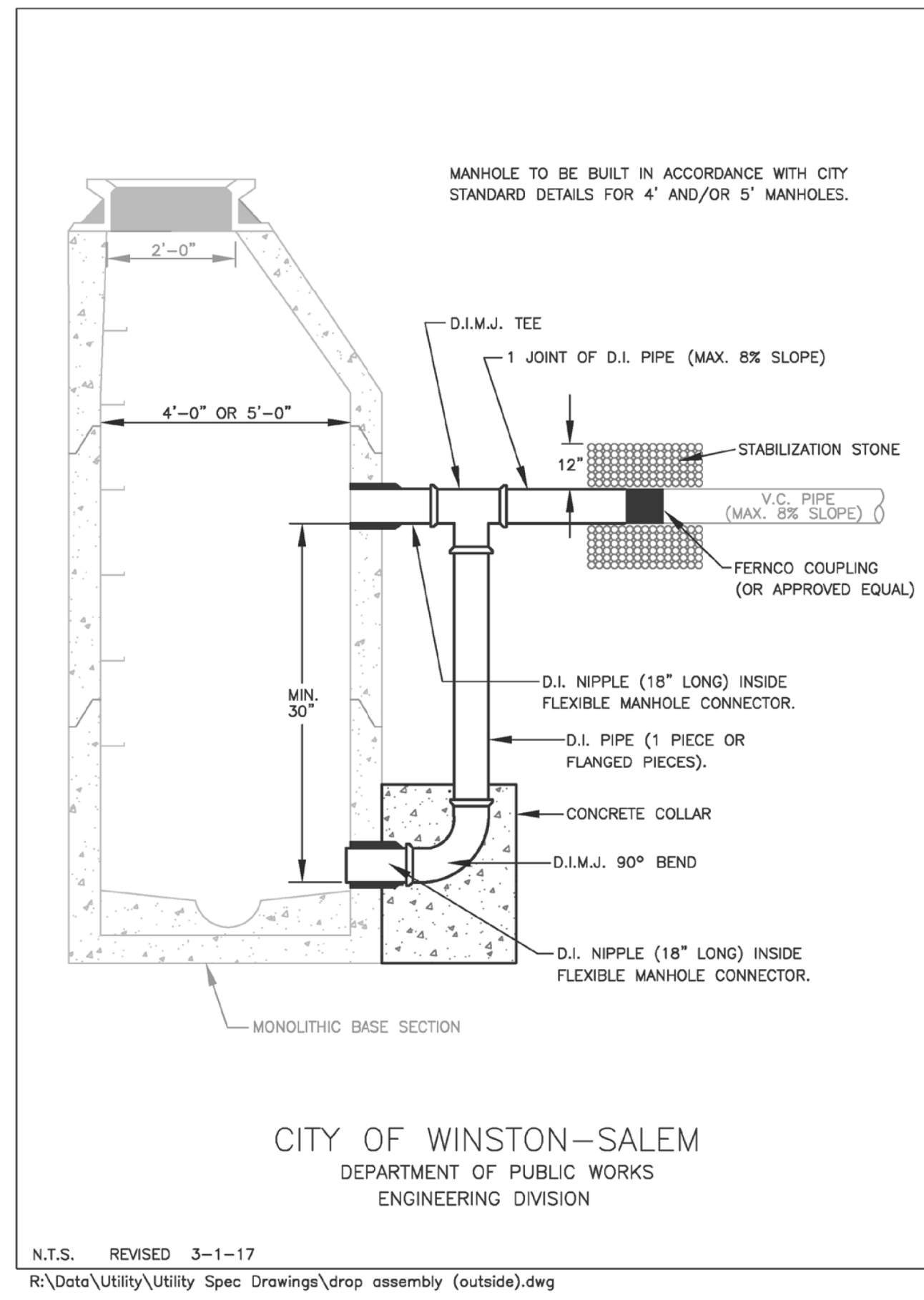
C-11

Manhole Built Over Existing Line



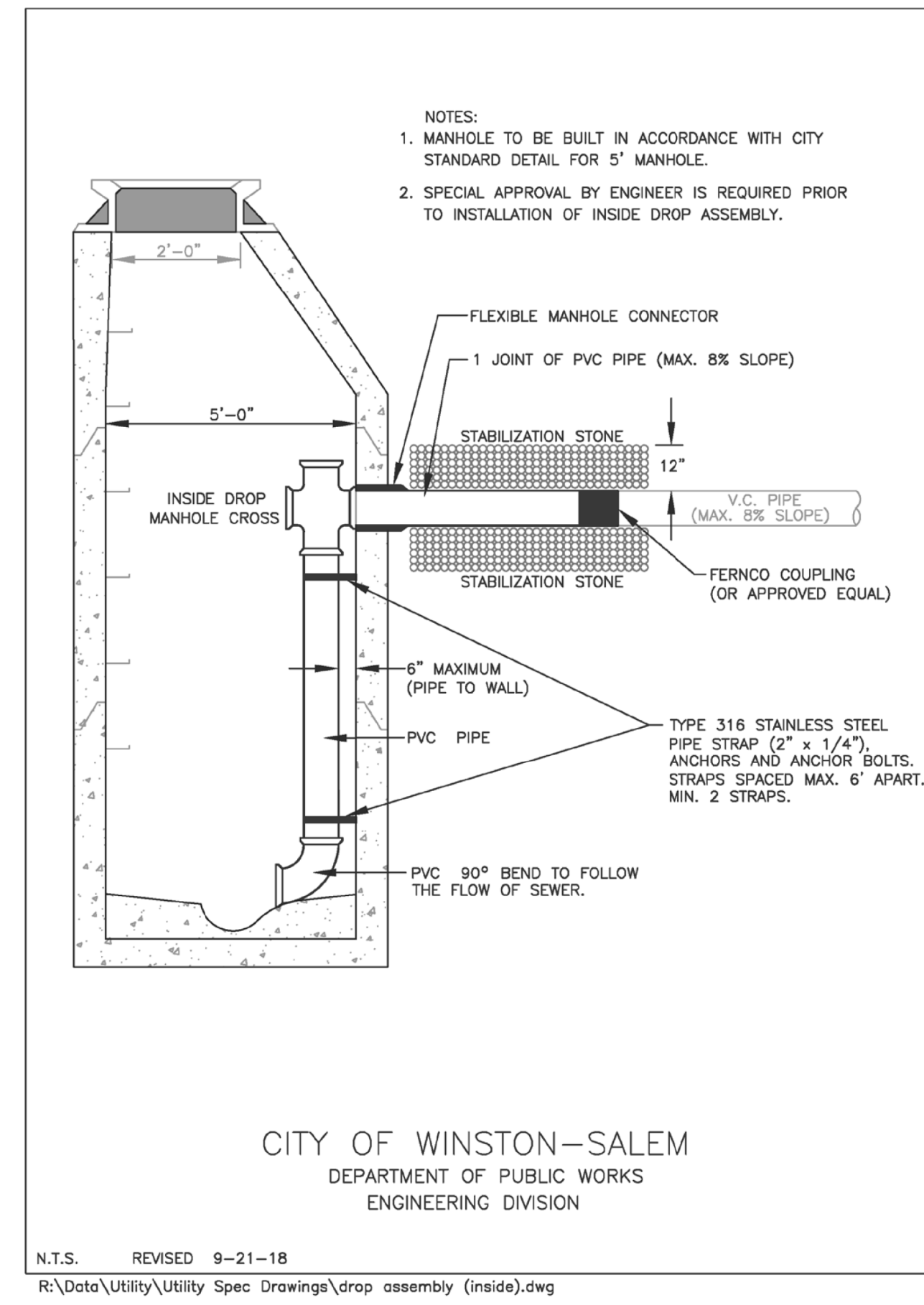
C-13

Drop Assembly (Outside)



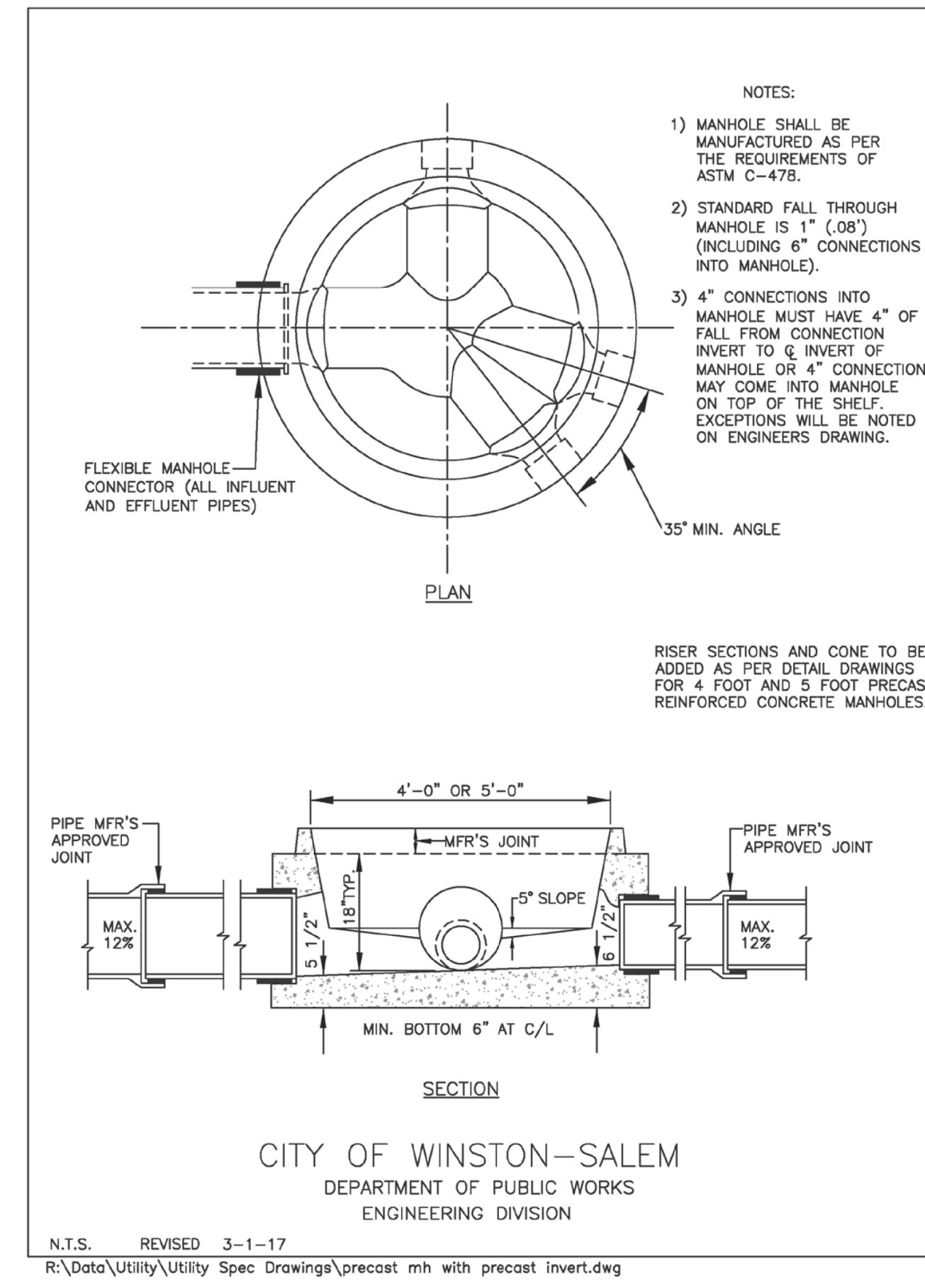
C-14

Drop Assembly (Inside)



C-15

Precast Reinforced Concrete Manhole with Precast Invert



C-16

PROJECT REFERENCE NO. U-2579AB	SHEET NO. UC-3A
DESIGNED BY: APL	
DRAWN BY: RDL	
CHECKED BY: APL	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FROM CITY OF WINSTON-SALEM, NC TECHNICAL SPECIFICATIONS AND DETAIL DRAWINGS FOR WATER LINE AND SANITARY SEWER LINE CONSTRUCTION, INDEX OF DETAIL DRAWINGS:

SECTION C - Water and Sanitary Sewer Detail Drawings

Signing Construction Operations.....	C-1
Asphalt Pavement Repair (For Non-State Maintained Roads).....	C-2
Asphalt Driveway Repair.....	C-3
Concrete Pavement and Driveway Repair.....	C-4
Mill and Patch Method - Option A (For State Maintained Roads).....	C-5
Overlay and Patch Method - Option B (For State Maintained Roads).....	C-6
Saw Cut and Patch Method - Option C (For State Maintained Roads).....	C-7
Mill and Patch Method - Option D (For State Maintained Roads).....	C-8
Bedding Requirements & Safe Cover for VC Pipe on Stable Subgrade.....	C-9
4' Precast Reinforced Concrete Manhole.....	C-10
5' Precast Reinforced Concrete Manhole.....	C-11
Type "B" 4' and 5' Precast Reinforced Concrete Manhole.....	C-12
Manhole Built Over Existing Line.....	C-13
Drop Assembly (Outside).....	C-14
Drop Assembly (Inside).....	C-15
Precast Reinforced Concrete Manhole with Precast Invert.....	C-16
Flexible Manhole Connector.....	C-17
Manhole Ring and Cover (Type 1).....	C-18
Manhole Ring and Cover (Type 2).....	C-19
Manhole Ring and Cover (Type 3).....	C-20
Polypropylene Manhole Step.....	C-21
4" Sewer Connection.....	C-22
4" Sewer Connection for Deep Mains.....	C-23
6" Sewer Connection.....	C-24
4" Restaurant Sewer Connection.....	C-25
4" Restaurant Sewer Connection for Deep Mains.....	C-26
6" Restaurant Sewer Connection.....	C-27
4" Private Force Main Sewer Connection.....	C-28
Concrete Anti-Seepage Collar.....	C-29
Steel Pile Detail.....	C-30
Concrete Pier Detail for 10" Max. DI Pipe.....	C-31
Concrete Pier Detail for 12"-16" DI Pipe.....	C-32
Concrete Pier Detail for 18"-24" DI Pipe.....	C-33
Concrete Pier Detail for 30" Pipe.....	C-34
Sanitary Sewer Mains on 18-22% Slope.....	C-35
Manhole Check Valve.....	C-36
Fence Gate.....	C-37
Fencing (Outfalls).....	C-38
Cast Iron Valve Box.....	C-39
Valve Box Installation.....	C-40
Hydrant and Valve Installation.....	C-41
Stub Out Installation.....	C-42
Concrete Thrust Blocks for Horizontal Bends.....	C-43
Concrete Thrust Blocks w/ Anchors for Top Vertical Bends.....	C-44
Blow-Off Assembly.....	C-45
1" Water Connection (With Curb & Gutter).....	C-46
1" Water Connection (Without Curb & Gutter).....	C-47
3/4" Water Connection (Non-Single Family).....	C-48
Cast Iron Meter Box for 5/8" and 1" Meters.....	C-49
Polymer Concrete Meter Box for 1 1/2" and 2" Meters.....	C-50
1 1/2" and 2" Water Connection.....	C-51
Air Release Valve (Section View).....	C-52
Air Release Valve (Profile View).....	C-53
2" Water Main Tap to 6" or Larger Water Main.....	C-54
Flushing and Chlorination Connection for Water Main Extensions.....	C-55

REVISIONS

66
65
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1