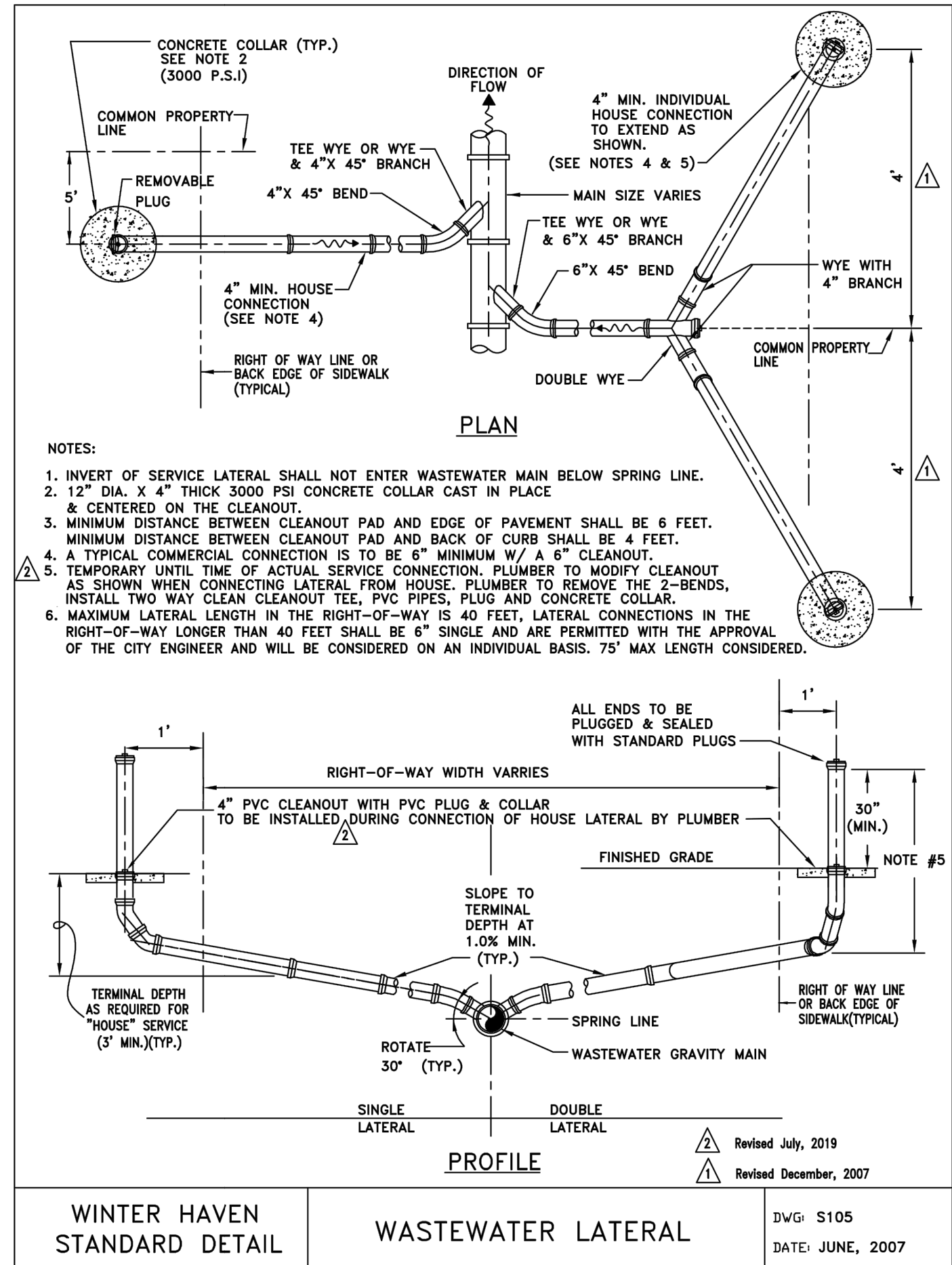


Dwg: N: JMJ - Westwood Apartments\Acad & Graphics\Engineering\Cover Details Notes.dwg, Layout: D3.0 COWH Wastewater Details

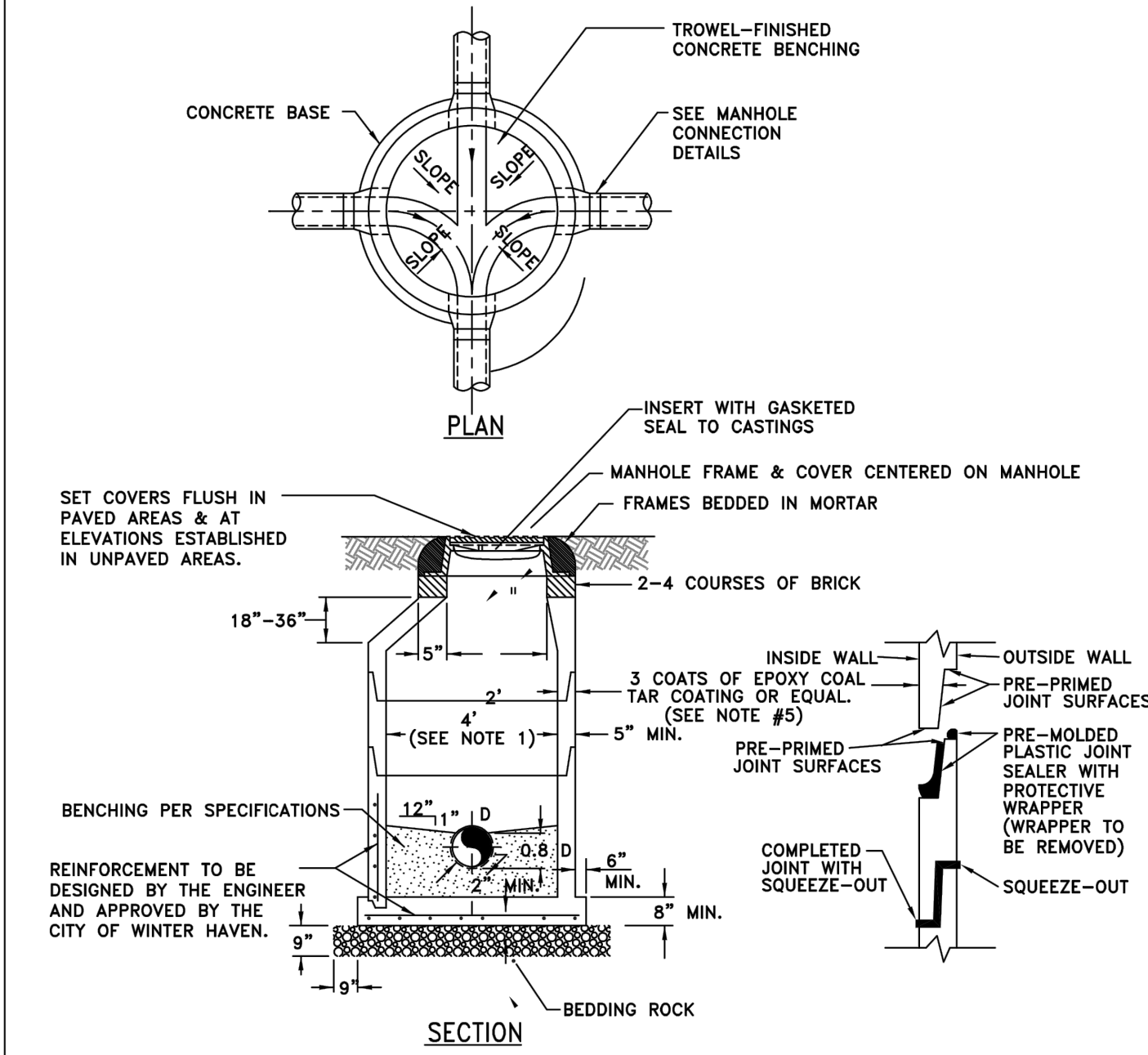


WINTER HAVEN STANDARD DETAIL

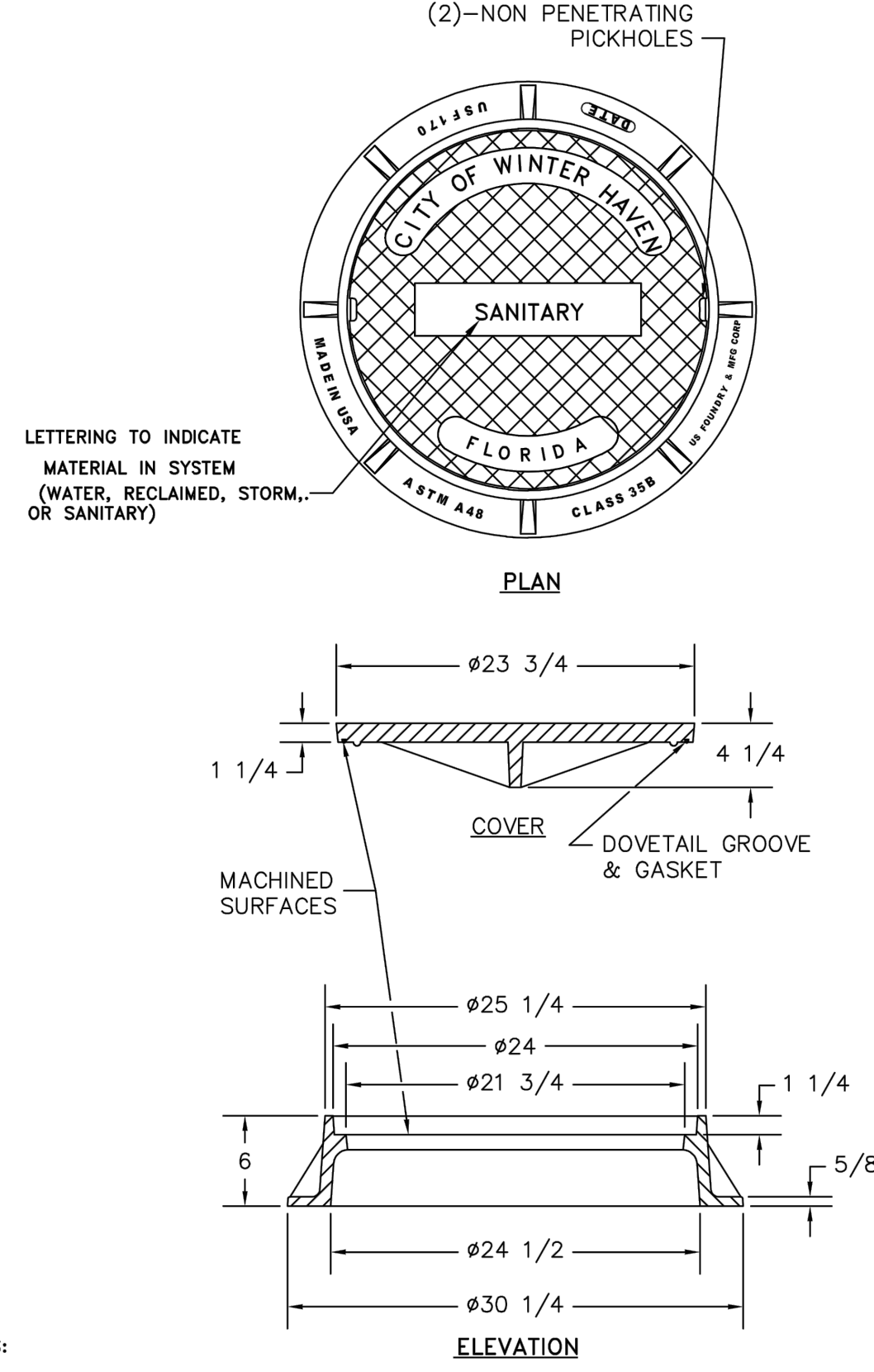
PRECAST CONCRETE MANHOLE

DWG: S102

DATE: DEC. 2018



- NOTES:
1. MANHOLE DIMENSIONS SHOWN ARE FOR: PIPES 8" THRU 24". FOR LARGER PIPES, MANHOLE DIAMETER SHALL BE TWICE THE PIPE DIAMETER, OR 5' MINIMUM.
  2. DROP CONNECTIONS ARE REQUIRED WHENEVER PIPE INVERT OF INFLUENT IS 24" OR MORE ABOVE THE LOWEST INVERT OF THE MANHOLE.
  3. ALL CONCRETE SHALL BE 4000 PSI FIBERMESH OR REINFORCED WITH WELDED WIRE MESH.
  4. MANHOLES WHERE FORCE MAINS DISCHARGE INTO SHALL BE LINED ON THE INSIDE PER THE FOLLOWING. PLASTIC LINING SHALL BE INSTALLED, SEALED AND SPARK TESTED IN ACCORDANCE WITH THE LINING MANUFACTURER'S RECOMMENDATION SO THAT THE FINAL ASSEMBLY OF THE MANHOLE WILL HAVE A TIGHTLY ADHERING LINING WITHOUT PIN HOLES OR OTHER AREAS NOT COVERING THE CONCRETE SURFACE. PLASTIC LINING SHALL BE "T-LOK" MANUFACTURED BY AMERON PROTECTIVE LINING DIVISION, "DURA PLATE 100" MANUFACTURED BY A-LOK PRODUCTS, OR "AGRU SURE-GRIP HDPE" BY TAYLOR PRECAST. PROVIDE A GROUT FILLET AROUND THE BOTTOM OF THE MANHOLE. GROUT SHALL BE 4000 PSI CONCRETE, EXCEPT THE MAXIMUM AGGREGATE SIZE SHALL BE 3/8 INCH.
  5. MINIMUM 6 MILS DRY THICKNESS FOR EACH COAT, INTERIOR, 4 MILS DRY THICKNESS FOR EACH COAT, EXTERIOR.
  6. CONTRACTOR SHALL APPLY A 6" WIDE EXTERNALLY APPLIED WATER TIGHT SEAL, SUGGESTED MANUFACTURER "WRAPID SEAL" OF CITY APPROVED EQUAL, AROUND THE OUTSIDE OF EACH JOINT THAT FALLS BELOW THE SEASONAL HIGH WATER TABLE.
- ADDED NOTE 6  
JULY 13, 2010 DCK



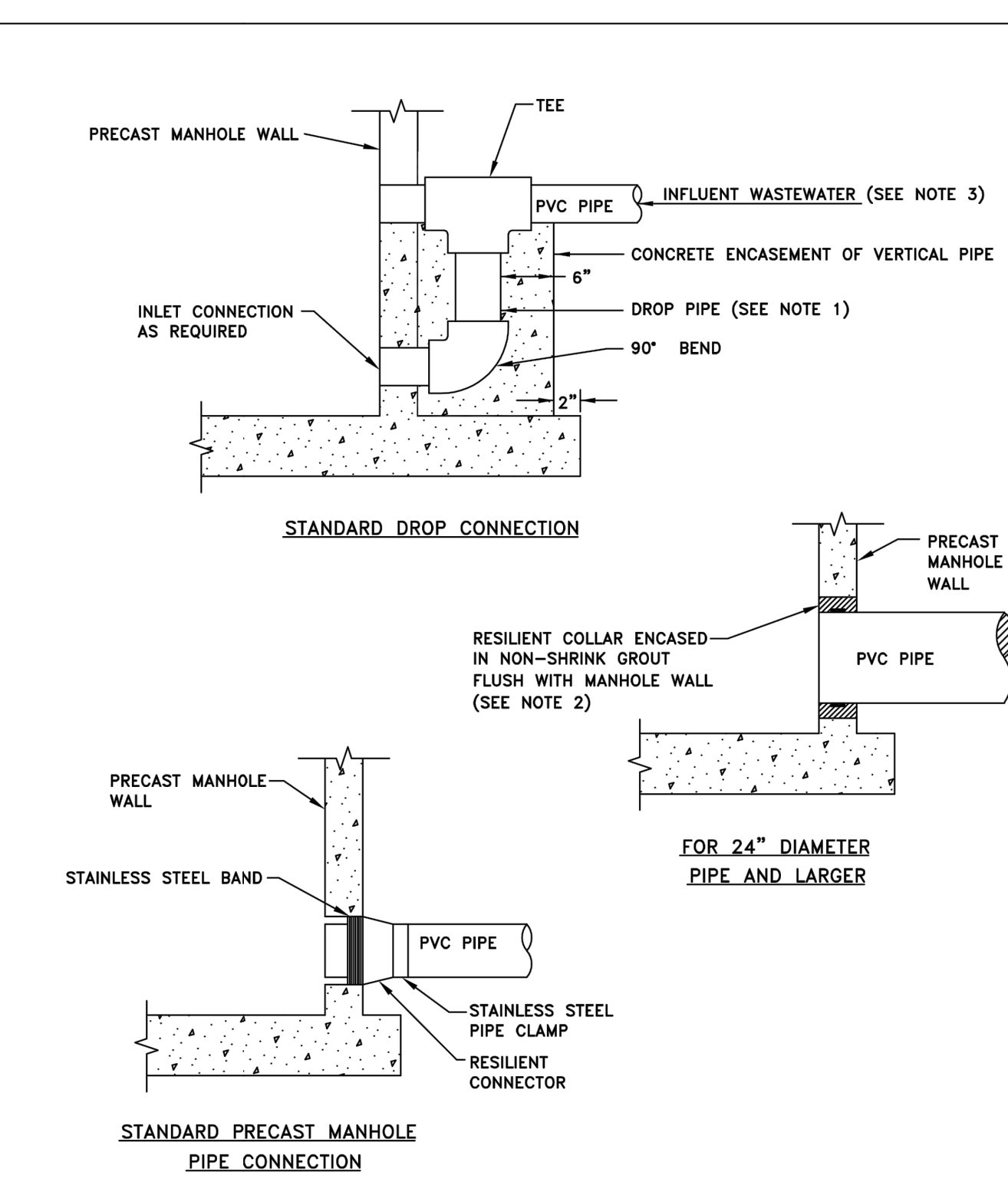
- NOTES:
1. AFTER INSPECTION LID SHALL BE COMPLETELY COATED WITH BITUMINOUS MATERIAL, MINIMUM DRY THICKNESS OF 16 MILS.
  2. PROVIDE "CITY OF WINTER HAVEN" LETTERING ON PUBLIC SEWER SYSTEMS ONLY.
  3. USF 170 RING AND CE COVER

WINTER HAVEN STANDARD DETAIL

MANHOLE FRAME AND COVER

DWG: S103

DATE: March 2019



- NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE PVC PIPE
  2. THE CITY SHALL APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER PRIOR TO INSTALLATION.
  3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE LOWEST MANHOLE INVERT.

WINTER HAVEN STANDARD DETAIL

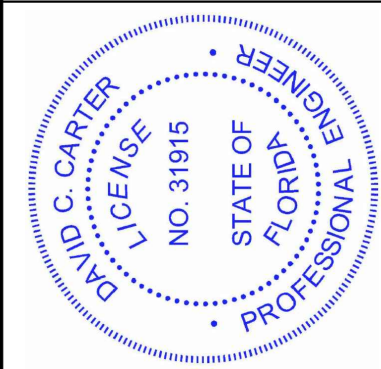
MANHOLE CONNECTION

DWG: S104

DATE: JUNE, 2007

NO.	DATE	APPR.	REVISIONS

DAVID C. CARTER, P.E.,  
REGISTERED PROFESSIONAL ENGINEER  
NO. 31915  
THIS ITEM WAS  
DESIGNED AND  
DRAWN BY  
DAVID C. CARTER, P.E.  
ON 10/7/19  
SIGNED AND SEALED BY  
DAVID C. CARTER, P.E.  
ON 10/7/19  
DATE OF PRINT  
06/01/2020  
CONTRACT NO. 19-001  
CONSIDERED ADOPTED  
FOR THE CITY OF WINTER HAVEN  
DIGITAL SIGNATURE  
ANY ELECTRONIC  
SIGNATURES



DRAWN BY:  
DESIGNED BY:  
CHECKED BY:  
D.C.C.  
ISSUE DATE:  
FIELD DATE:

**CARTER**

**ENGINEERING**

137 5th. St. N.W., Winter Haven Fl. 33881  
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C.O.W.H. WASTEWATER DETAILS

**WESTWOOD AT WINTER HAVEN**

A MULTI-FAMILY COMMUNITY

WINTER HAVEN, FLORIDA

PROJECT No.	SHEET #
278	D3.0
PLOT DATE	Oct. 09, 2019-9:45



**IMPORTANT:**

ALL SERVICE LATERALS, VALVES, FIRE HYDRANTS, FITTINGS, INLETS, ETC... SHOWN HEREON ARE GRAPHICAL SYMBOLS ONLY AND NOT TO SCALE. REFER TO DETAIL SHEETS FOR EXACT LOCATION, SIZE AND OTHER SPECIFICS.