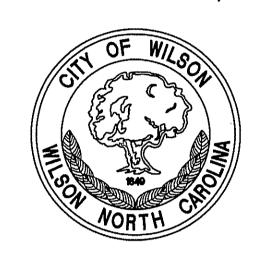
# LAKE WILSON ROAD GRAVITY SEWER EXTENSION CONSTRUCTION PLAN

for

## CITY OF WILSON

Wilson County, North Carolina DECEMBER, 2020



MAYOR:

COUNCIL MEMBERS:

CARLTON L. STEVENS

MICHAEL S. BELL

DEREK D. CREECH DONALD I. EVANS

WILLIAM THOMAS "TOM" FYLE

JAMES M. JOHNSON, III

LOGAN T. LILES

GILLETTIA MORGAN

CITY MANAGER:

DEPUTY CITY MANAGER:

CITY CLERK:

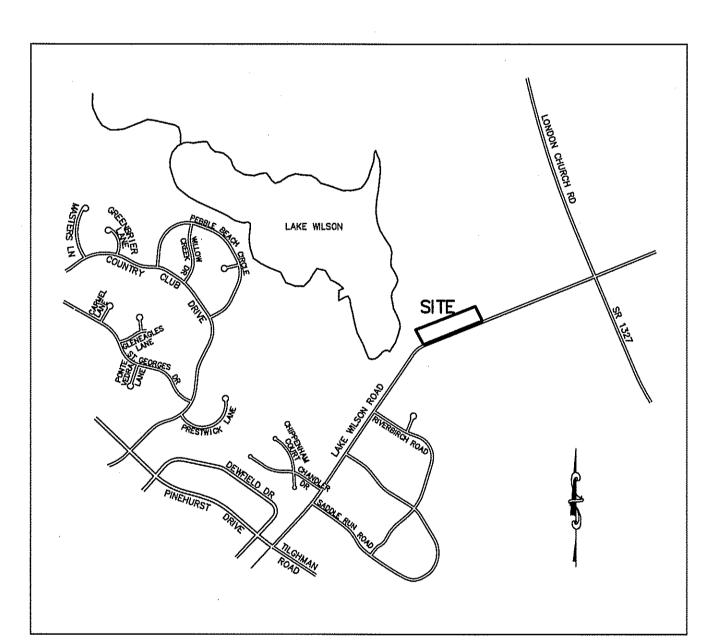
PUBLIC WORKS DIRECTOR:

GRANT W. GOINGS

HARRY TYSON

TONYA A. WEST

W.T. "BILL" BASS, IV

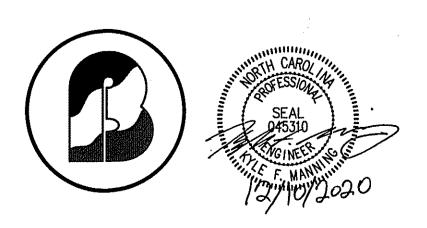


LOCATION MAP

PREPARED BY:

P:\\_CADD\\_LANDPROJECTS\WC\18307\DWG\18307CP2-ROAD.EXT.DWG 12/10/2020 4:45:26 PM

BARTLETT ENGINEERING & SURVEYING, PC 1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893-1726



SHEET INDEX

CV COVER SHEET
CP1 PLAN & PROFILE
DT1 DETAILS

ATE: DECEMBER 2020

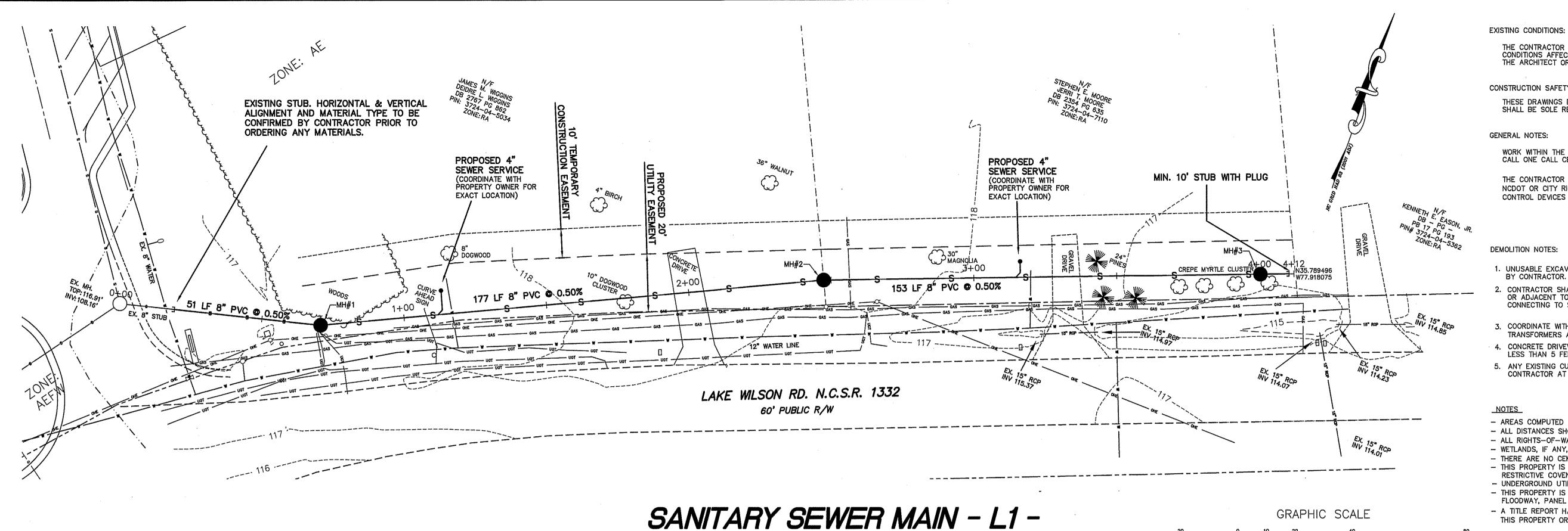
JRVEY BY:
RAWN BY: LR

JENT CODE: WC

ROJECT: 18–307

SHEET

CV



(Sta. 0+00 to Sta. 4+10)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

### CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

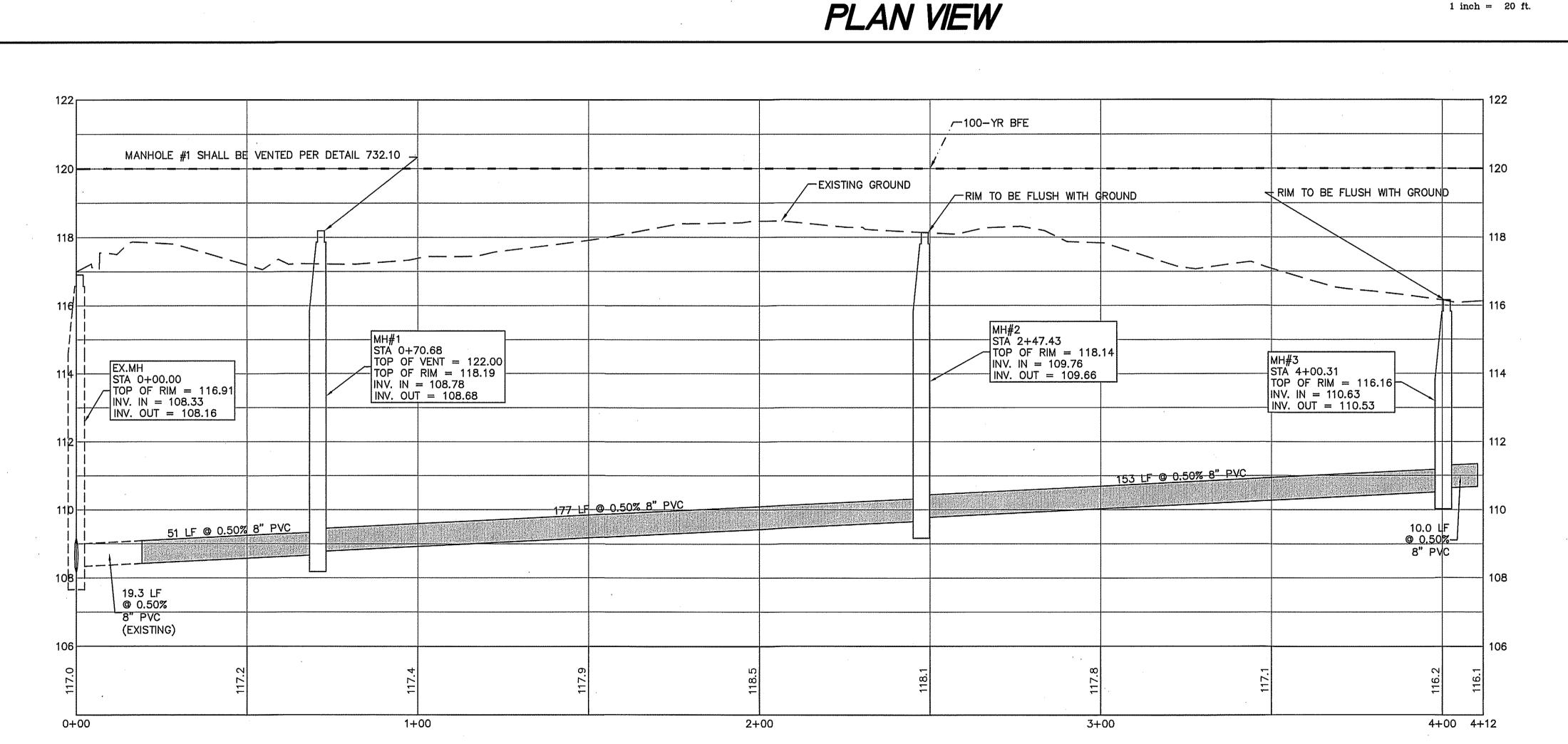
WORK WITHIN THE NCDOT RIGHT-OF-WAY SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS. CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

- 1. UNUSABLE EXCAVATED MATERIALS SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION
- 2. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR
- 3. COORDINATE WITH THE LOCAL UTILITY PROVIDER FOR REMOVAL/RELOCATION OF EXISTING ELECTRICAL TRANSFORMERS AND/OR LIGHT POLES.
- 4. CONCRETE DRIVEWAYS TO BE REMOVED TO NEAREST JOINT OR SAW-CUT IN A MANNER SUCH THAT NO JOINT IS
- 5. ANY EXISTING CURB & GUTTER OR ASPHALT DAMAGED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- AREAS COMPUTED BY COORDINATE CALCULATIONS.
- ALL DISTANCES SHOWN ARE HORIZONTAL UNLESS NOTED OTHERWISE.
- ALL RIGHTS-OF-WAY ARE PUBLIC UNLESS NOTED OTHERWISE.
- WETLANDS, IF ANY, HAVE NOT BEEN DELINEATED
- THERE ARE NO CEMETERIES VISIBLE. - THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS,
- RESTRICTIVE COVENANTS AND ORDINANCES. - UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS ONLY.
- THIS PROPERTY IS LOCATED IN THE 100-YR FLOOD HAZARD AREA AND THE
- FLOODWAY, PANEL NO. 3720371400K & 3720372400K DATED 4/16/2013. - A TITLE REPORT HAS X HAS NOT \_\_\_\_ BEEN SUPPLIED FOR
- THIS PROPERTY OR THIS SURVEY.

( IN FEET )

1 inch = 20 ft.



ALL MANHOLES ARE LOCATED BELOW THE 100-YR BFE, THUS WATERTIGHT MANHOLE COVERS SHALL BE USED FOLLOWING DETAIL 735.01 ON ALL MANHOLES.

### WATER, SEWER, AND STORM DRAINAGE LINES SHALL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:

-MIN. 10' LATERAL SEPARATION BETWEEN WATER/SEWER LINES. -MIN. 24" VERT. SEPARATION BETWEEN WATER/SEWER. IF WATER MUST BE PLACED BELOW SEWER, DUCTILE IRON IS REQUIRED ON BOTH LINES. DUCTILE IRON SHOULD EXTEND 10' PAST INTERSECTION ON WATER LINE AND TO THE NEXT MANHOLE ON SEWER LINE PER CITY OF WILSON SPECIFICATIONS.

-WATER/SEWER CROSSINGS SHALL BE ARRANGED SO THAT SEWER JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

-MIN. 24" VERT. SEPARATION BETWEEN STORM DRAIN AND SAN. SEWER OR DUCTILE IRON IS REQUIRED.

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS BY NCDOT AND/OR WITH MUNICIPALITY.

LOCATION, QUANTITY AND PLACEMENT OF DRAINAGE PIPES AND EROSION CONTROL DEVICES MAY VARY TO BETTER CONFORM TO FIELD CONDITIONS.

UTILITIES SHOWN ON PLANS ARE LOCATED APPROXIMATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES WHETHER SHOWN ON PLANS OR NOT.

CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION

CONTRACTOR TO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THESE FACILITIES IF DAMAGED.

### BARTLETT ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH WILSON, N.C. 27893-1726 License No. C-1551 www.bartlett.us.com

TELE: (252) 399-0704 FAX: (252) 399-0804

PLAN AND PROFILE

## LAKE WILSON RD

GRAVITY SEWER EXTENSION

DATE: DEC. 2020  SCALE(HORZ): 1" = 20'	PROJECT: 18-307 CLIENT CODE: WC CADFILE: 18307CP2-ROAD.EXT	CITY OF WILSON	
SCALE(VERT): 1" = 2'		NORTH CAROLINA	
REVISIONS:		PIN #	

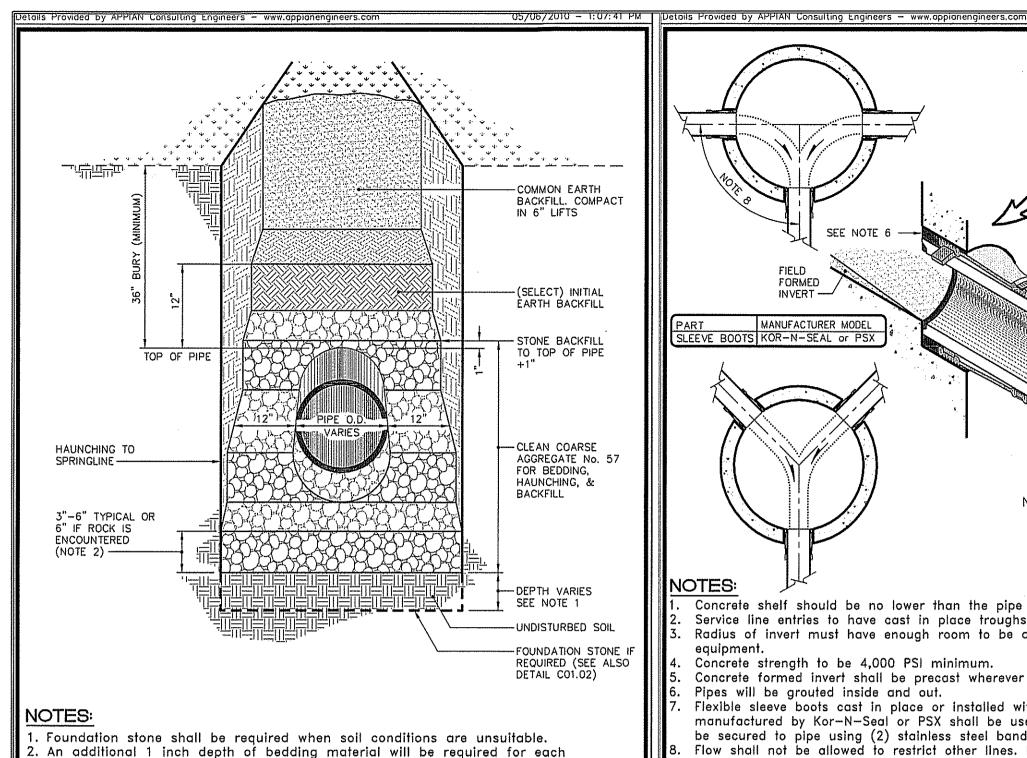
WILSON COUNTY

OS

CP1

ZONE:

SHEET



additional 2 feet of trench depth in excess of 16 feet up to a maximum of 12 inches.

> ublic Services Departments CITY of WILSON, N.C. 800 Herring Avenue, / P.O. Box 10 SANITARY SEWER LINE TRENCH (NON-TRAFFIC AREAS)

Not To Scale 2731.01

MANUFACTURER MODEL
EEVE BOOTS KOR-N-SEAL or PS Concrete shelf should be no lower than the pipe spring line elevation at manhole wall. Service line entries to have cast in place troughs. Radius of invert must have enough room to be able to insert air plugs and TV equipment. Concrete strength to be 4,000 PSI minimum. Concrete formed invert shall be precast wherever possible. Moorbases are permitted. Pipes will be grouted inside and out. Flexible sleeve boots cast in place or installed with stainless steel expander rings as manufactured by Kor-N-Seal or PSX shall be used for pipe connections. Boots shall be secured to pipe using (2) stainless steel bands. Flow shall not be allowed to restrict other lines. Influent lines shall not enter manholes at less than 90° from effluent line unless otherwise approved by City Engineer or Water

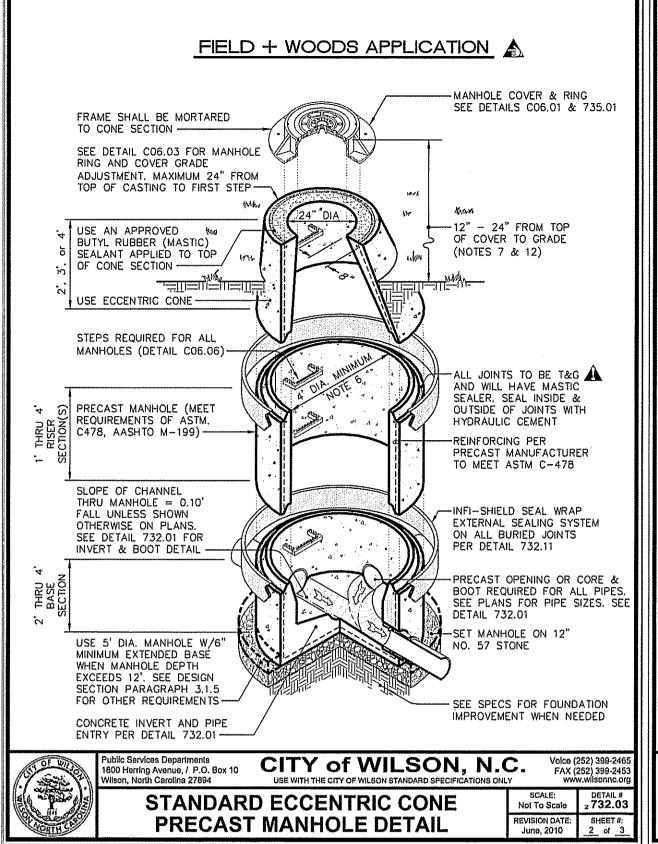
ublic Services Departments
800 Herring Avenue, / P.O. Box 10 CITY of WILSON, N.C.

TYPICAL SEWER INVERT

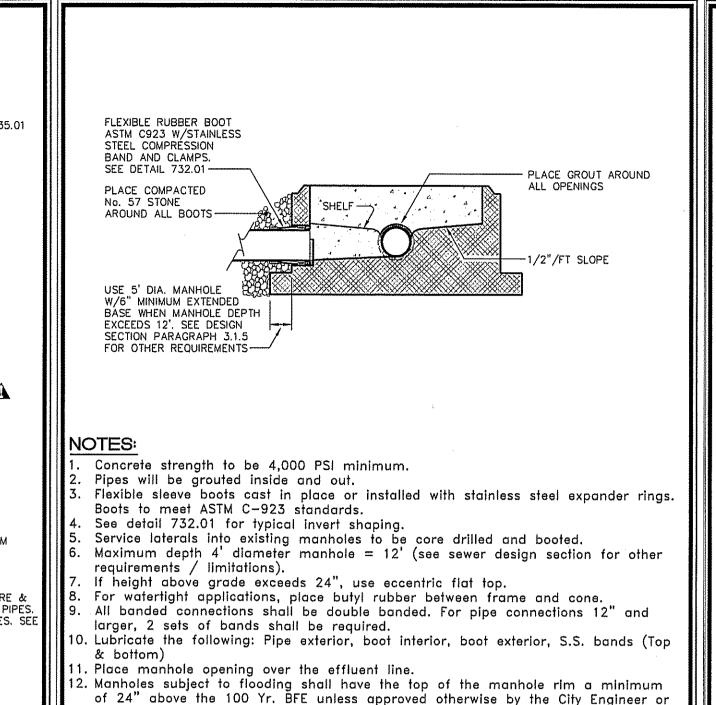
**PLANS FOR MANHOLES** 

2732.01

SCALE: Not To Scale



05/06/2010 - 1:07:01 PM | |Details Provided by APPIAN Consulting Engineers - www.appianengineers.com



3. Outfall manholes, reguardless of manhole top elevation, shall be vented.

STANDARD ECCENTRIC CONE

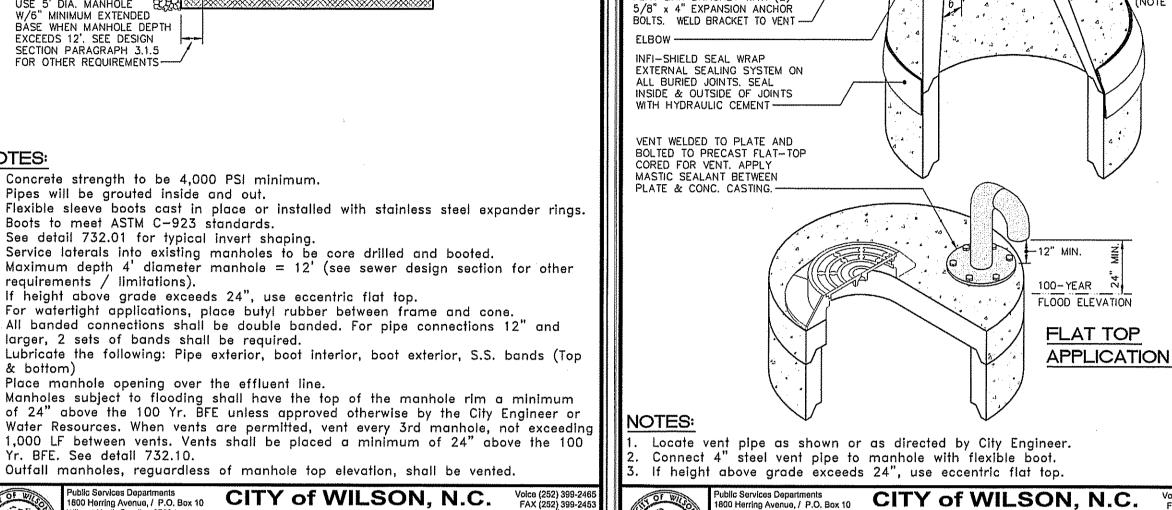
PRECAST MANHOLE DETAIL

Its Services Departments
O Herring Avenue, / P.O. Box 10

CITY of WILSON, N.C.

05/06/2010 - 1:03:52 PM | Details Provided by APPIAN Consulting Engineers - www.appianengineers.com

Yr. BFE. See detail 732.10.



(2) 4" 90" BENDS -

BRONZE SCREEN-

LOCATE ABOVE EXISTING

AS SHOWN ON DRAWING-

100-YEAR FLOOD ELEVATION

(NOTE 3) --

3/8" x 3" STAINLESS STEEL

SCALE: Not To Scale

732.0

FLAT BAR BRACKET WITH (2)

SET TOP OF MANHOLE

12" ABOVE GRADE.

EXISTING GROUND

GROUND ELEVATION

Locate vent pipe as shown or as directed by City Engineer. Connect 4" steel vent pipe to manhole with flexible boot. If height above grade exceeds 24", use eccentric flat top.

Public Services Departments
1800 Herring Avenue, / P.O. Box 10
Vilson, North Carolina 27894

CITY of WILSON, N.C.
USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY Voice (252) 399-249 FAX (252) 399-249 SCALE: DETAIL #
Not To Scale 2 732.10 STANDARD MANHOLE **VENTING DETAIL** 

ECCENTRIC CONE

WATER-TIGHT

INFI-SHIELD

CORE AND

(NOTE 2)

FRAME & COVER

UNIBAND EXTERNAL

PER DETAIL 732.11

(U.G. APPL. ONLY)

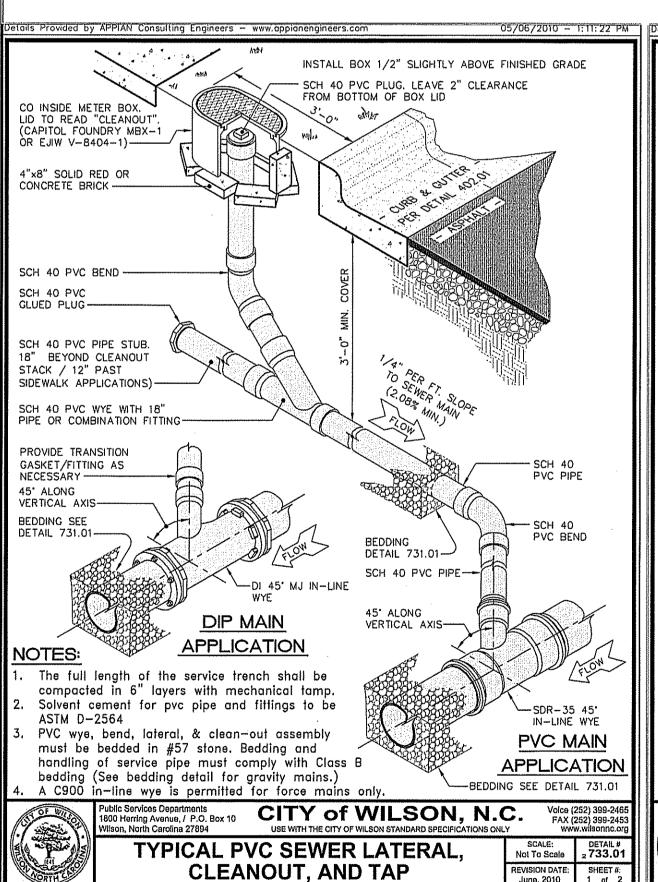
GROUT THRU HOLE IN MANHOLE

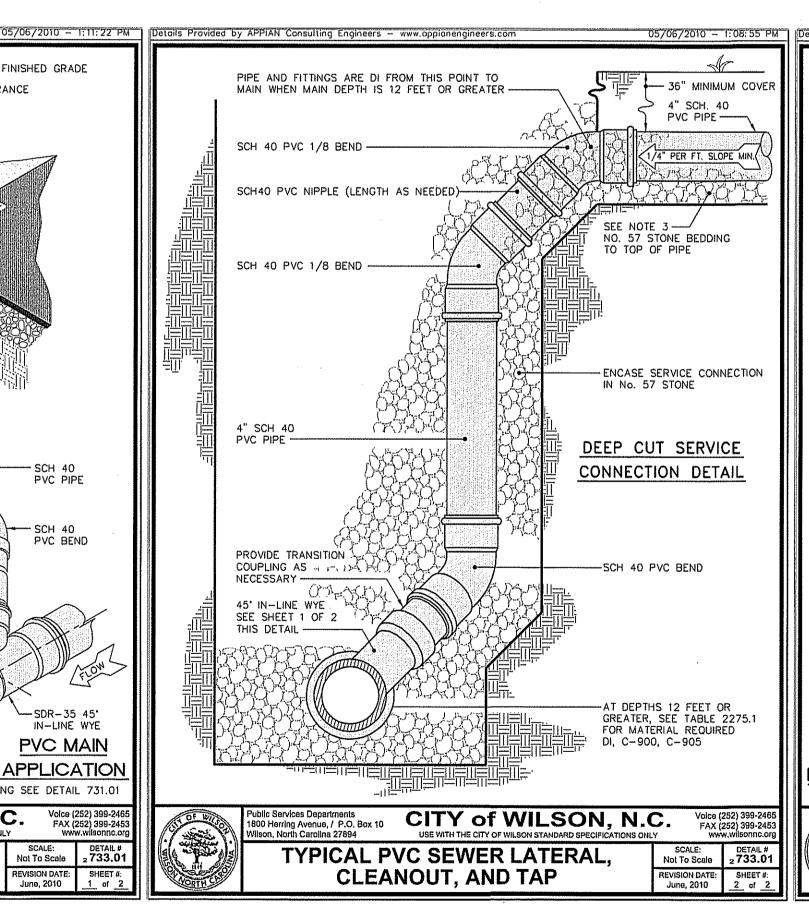
REVERSE BOOT

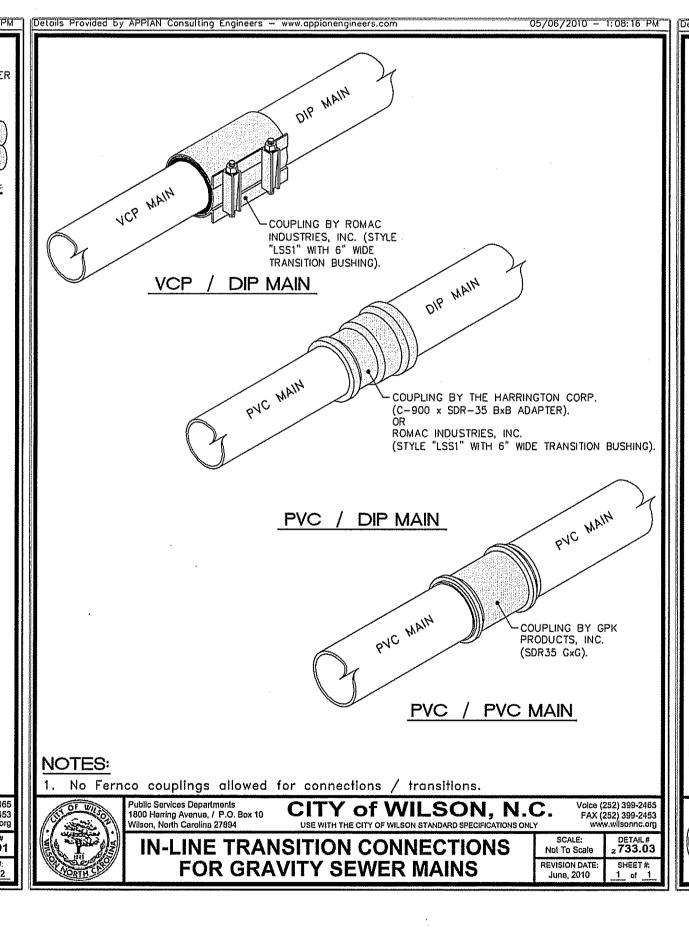
SEALING SYSTEM

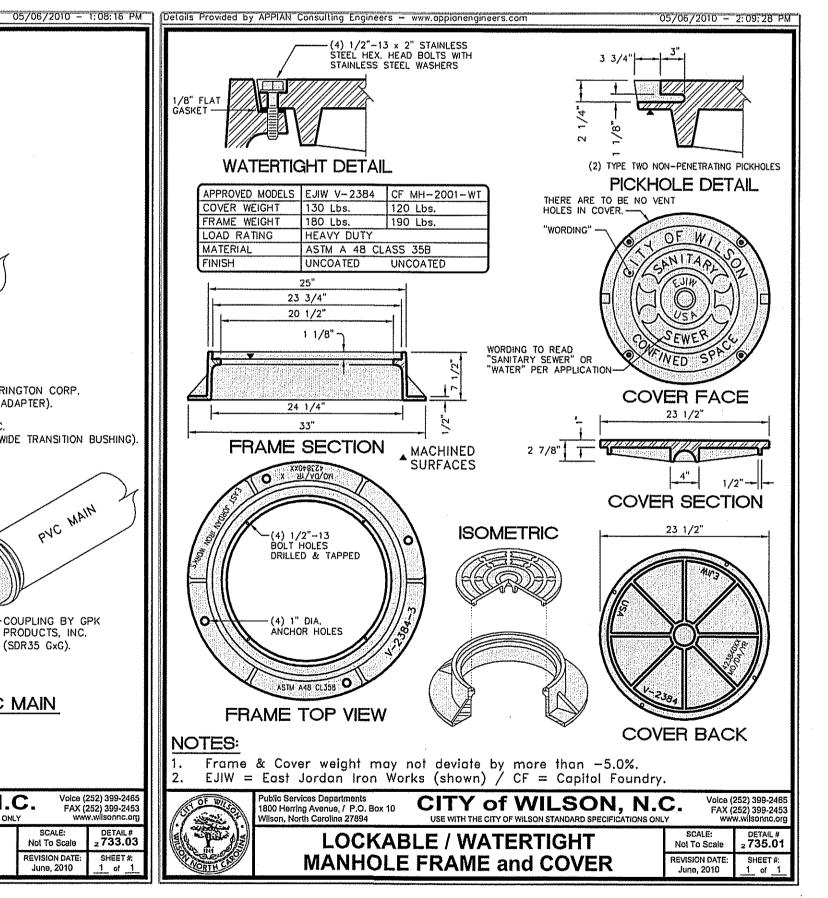
(DETAIL 735.01)

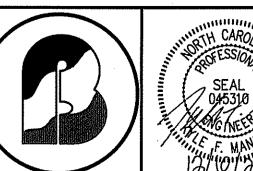
**APPLICATION** 













## BARTLETT ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH TELE: (252) 399-0704 WILSON, N.C. 27893-1726 FAX: (252) 399-0804 License No. C-1551 www.bartlett.us.com

**DETAILS** 

## LAKE WILSON RD GRAVITY SEWER EXTENSION

REVISIONS:		PIN #	SHEET	DT1
SCALE(VERT):	DRAWN BY: TRB/LR SURVEY BY: TRB/HMO	NORTH CAROLINA	ZONE:	os
SCALE(HORZ): AS SHOWN	CLIENT CODE: WC CADFILE: 18307CP2—ROAD.EXT FIELD BOOK: 349	CITY OF WILSON	WILSON COUNTY	
DATE: DEC. 2020	PROJECT: 18-307			