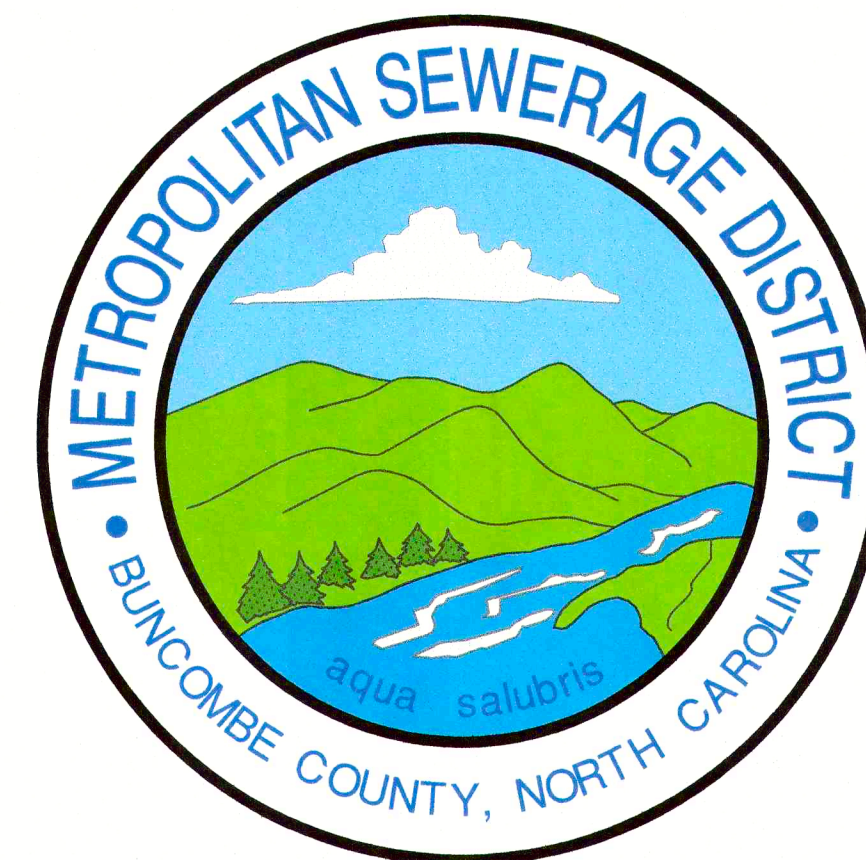


JONESTOWN RD. @ RIVERSIDE DR.

SANITARY SEWER REHABILITATION

(PROJECT NO. 2018028)

MSD OF BUNCOMBE COUNTY



INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C-1	INDEX OF DRAWINGS AND VICINITY MAP
PL-1	SANITARY SEWER OVERALL & SURFACE REPAIR PLAN
PL-2	SANITARY SEWER PLAN & PROFILE
PL-3	SANITARY SEWER PLAN & PROFILE
PL-4	SANITARY SEWER PLAN & PROFILE
D-1	SANITARY SEWER DETAILS

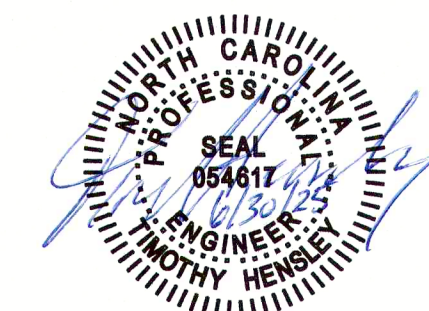
GENERAL NOTES:

- LENGTHS SHOWN ARE NOT ACTUAL PIPE LENGTHS BUT ARE DISTANCES STATION TO STATION. SLOPES SHOWN ON THE PROFILE ARE CALCULATED USING LENGTHS FROM INSIDE EDGES OF MANHOLE.
- ALL WORK ON THIS PROJECT SHALL COMPLY WITH THE CURRENT STANDARD DETAILS AND SPECIFICATIONS OF THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY. SPECIAL CONDITIONS AND SPECIAL PROVISIONS MAY APPLY TO THIS PROJECT - SEE SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, AS MAY BE APPLICABLE TO THIS PROJECT AND THE WORK DONE HEREUNDER.
- WHERE FEDERAL, STATE, OR LOCAL LAWS REQUIRE THAT A PERMIT BE ISSUED AND OBTAINED FOR WORK DONE UNDER THIS PROJECT, ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE PERMIT.
- ANY MODIFICATIONS TO THESE CONSTRUCTION PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE MSD PROJECT ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO KEEP THE SEWER AND ALL OTHER UTILITIES IN SERVICE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF ANY KIND FOR DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL LOCATE ALL SERVICES CURRENTLY SERVED BY THE EXISTING SEWER AND RECONNECT TO THE NEW SEWER, INSTALLING A CLEANOUT ASSEMBLY AS REQUIRED (SEE DETAIL).
- THE CONTRACTOR SHALL RESTORE ALL STREETS, PROPERTIES, AND IMPROVEMENTS TO AS GOOD OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION.
- PROPERTY LINES SHOWN ON PLANS ARE APPROXIMATE ONLY. PROPERTY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LICENSED NC PROFESSIONAL LAND SURVEYOR.
- DESIGN BASED ON SURVEY INFORMATION PROVIDED BY DOLE SURVEYING & DESIGN AT 828-251-7025.
- CONFLICTING INFORMATION WAS FOUND FOR THE RIGHT OR WAY OF JONESTOWN ROAD. PB 12 PG 17 SHOWS A 30' RIGHT OF WAY AND PB 32 PG 98 SHOWS A 60' RIGHT OF WAY. PLATS RECORDED IN PB 41 PG 41, PB 83 PG 31, PB 162 PG 185, PB 173 PG 87 & PB 196 PG 123 SHOW NO RIGHT OF WAY. THE RIGHT OF WAY FOR JONESTOWN ROAD HAS NOT BEEN PLOTTED.

LEGEND	
	FINISHED FLOOR ELEVATION
	PK NAIL FOUND
	EXISTING IRON PIN FOUND
	REBAR FOUND
	SIGN
	TRAVERSE TREE
	PROPOSED ABANDON PLUG
	PROPOSED ABANDON SEWER MANHOLE
	PROPOSED CLEANOUT
	SANITARY SEWER MANHOLE
	EXISTING CLEANOUT
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	UTILITY POLE
	GUY WIRE
	LIGHT POLE
	PROPOSED SANITARY SEWER LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED PERMANENT EASEMENT
	PROPOSED TEMPORARY EASEMENT
	PROPOSED SILT FENCE LINE
	PROPOSED ASPHALT SURFACE REPAIR
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING WATER LINE
	EXISTING STREAM/CREEK
	EXISTING FEMA LINE
	EXISTING OVER HEAD UTILITY LINE
	EXISTING STORM DRAINAGE PIPE
	EXISTING FENCE LINE
	EXISTING DITCH LINE
	EXISTING TOE/TOP OF SLOPE
	EXISTING TREE LINE
	EXISTING CONCRETE
	EXISTING GRAVEL AREA (RIP-RAP)
	EXISTING ASPHALT ROADWAY
	EXISTING BUILDING
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR



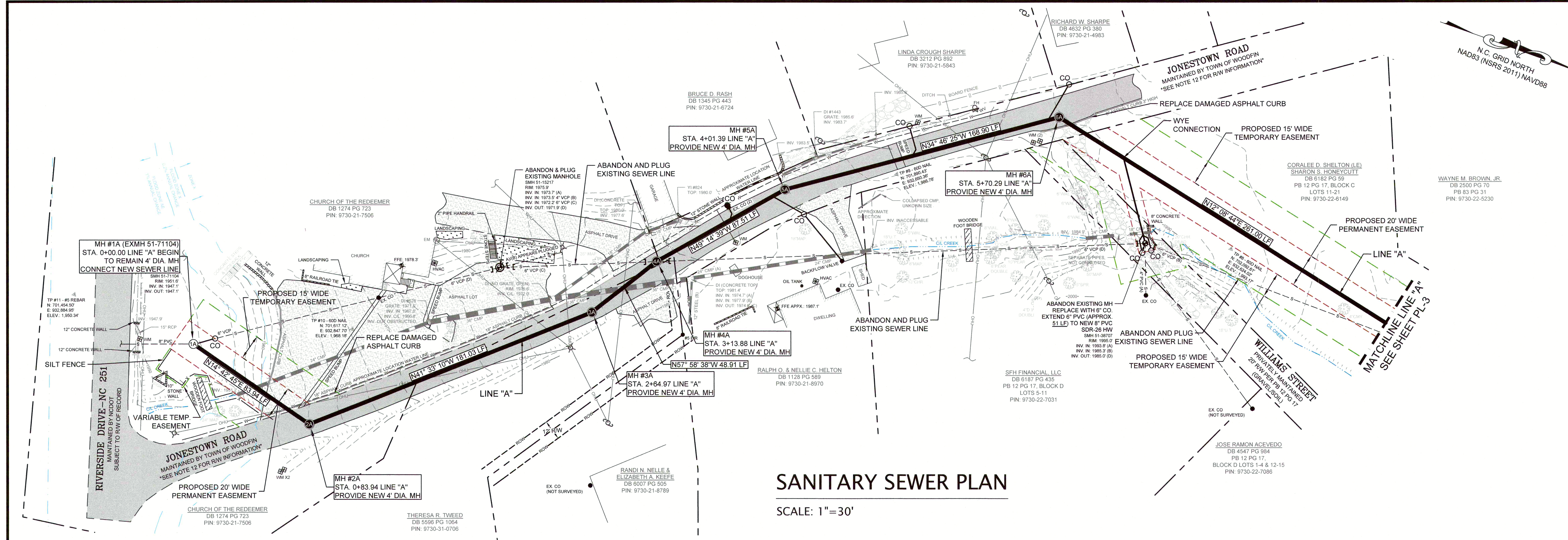
PROJECT SITE



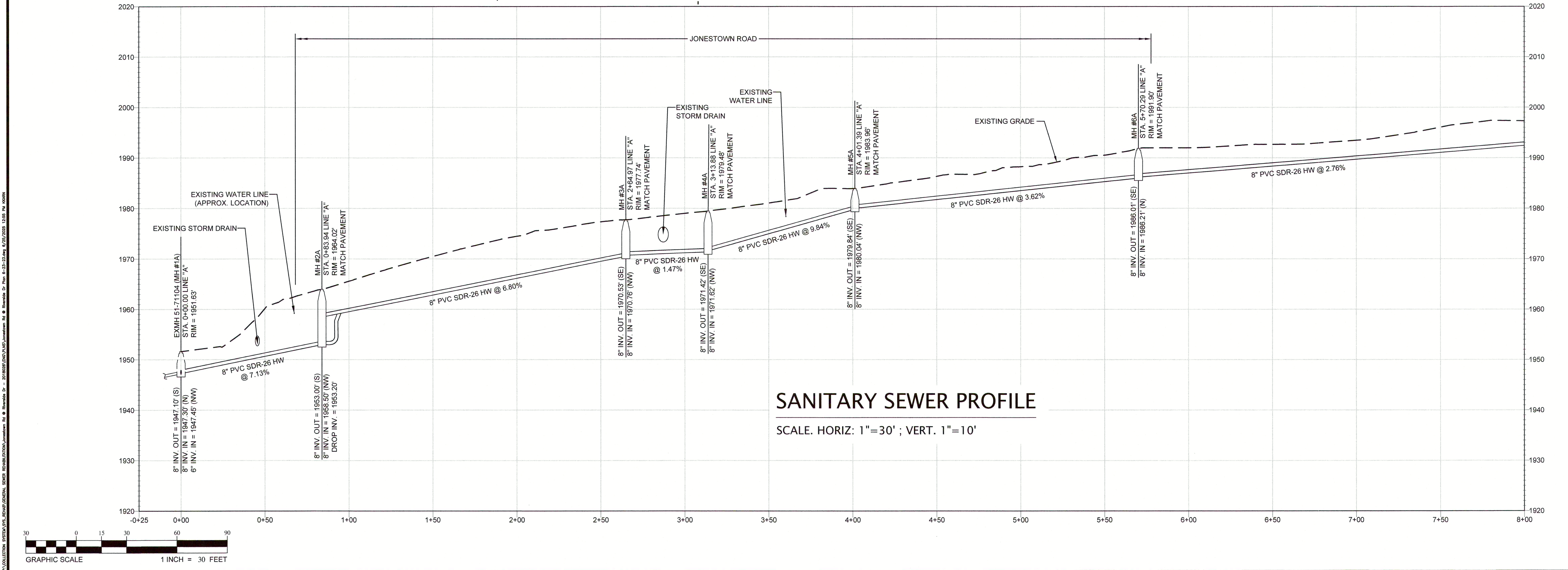
VICINITY MAP

Scale: NTS

PROJECT: JONESTOWN RD. @ RIVERSIDE DR. SANITARY SEWER PLAN & PROFILE. DATE: 01/16/2024. DRAWN BY: TH. CHECKED BY: TH. APPROVED BY: TH. SCALE: 1"=30'. PL-2



SANITARY SEWER PLAN
SCALE: 1"=30'



SANITARY SEWER PROFILE
SCALE: HORIZ: 1"=30' ; VERT: 1"=10'

Metropolitan Sewerage District
of Buncombe County

JONESTOWN RD. @ RIVERSIDE DR.
Sanitary Sewer Plan & Profile

PL-2

DATE: 01/16/2024

SCALE: 1"=30'

DRAWN: KMK

CHECKED BY: TH

APPROVED: TH

06/30/2022

04/15/2024

DATE

2. BID SET

1. ROW SUBMITTAL

No

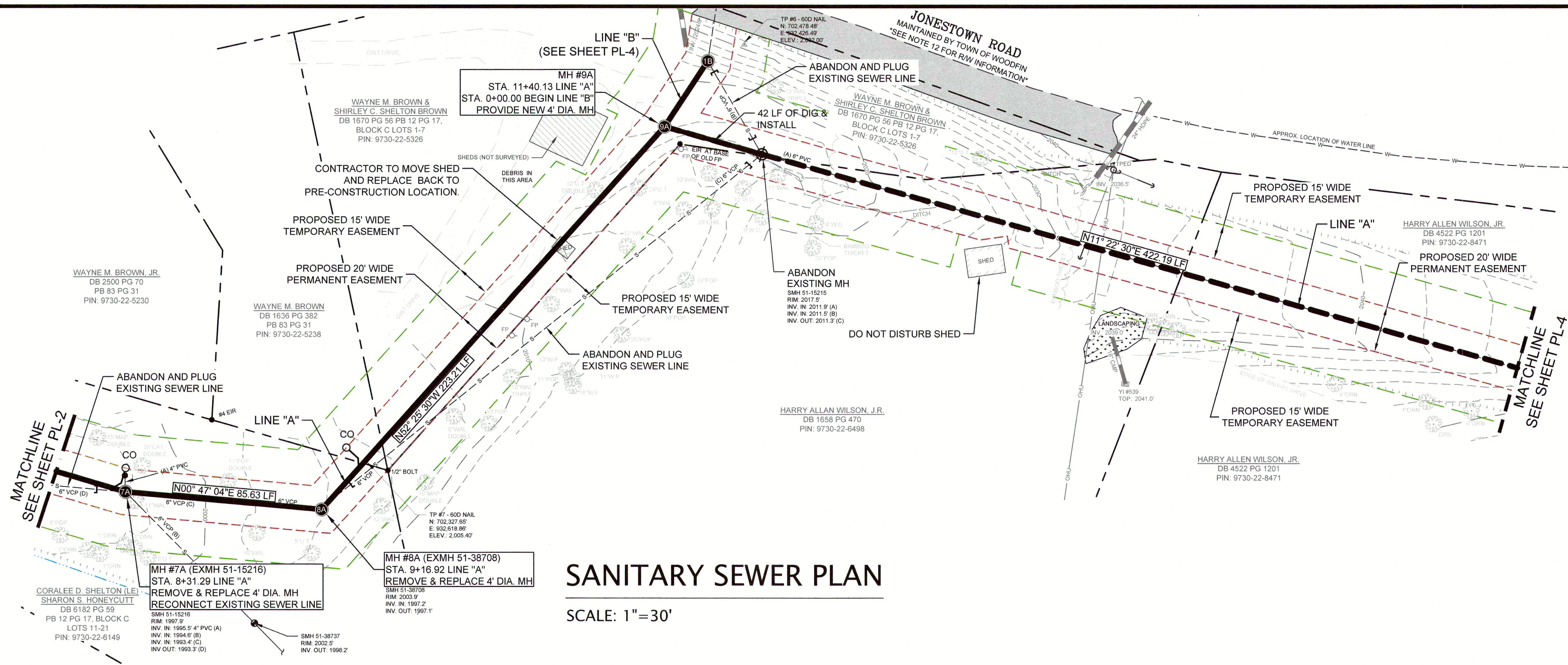
DESCRIPTION

REVISIONS

MSD

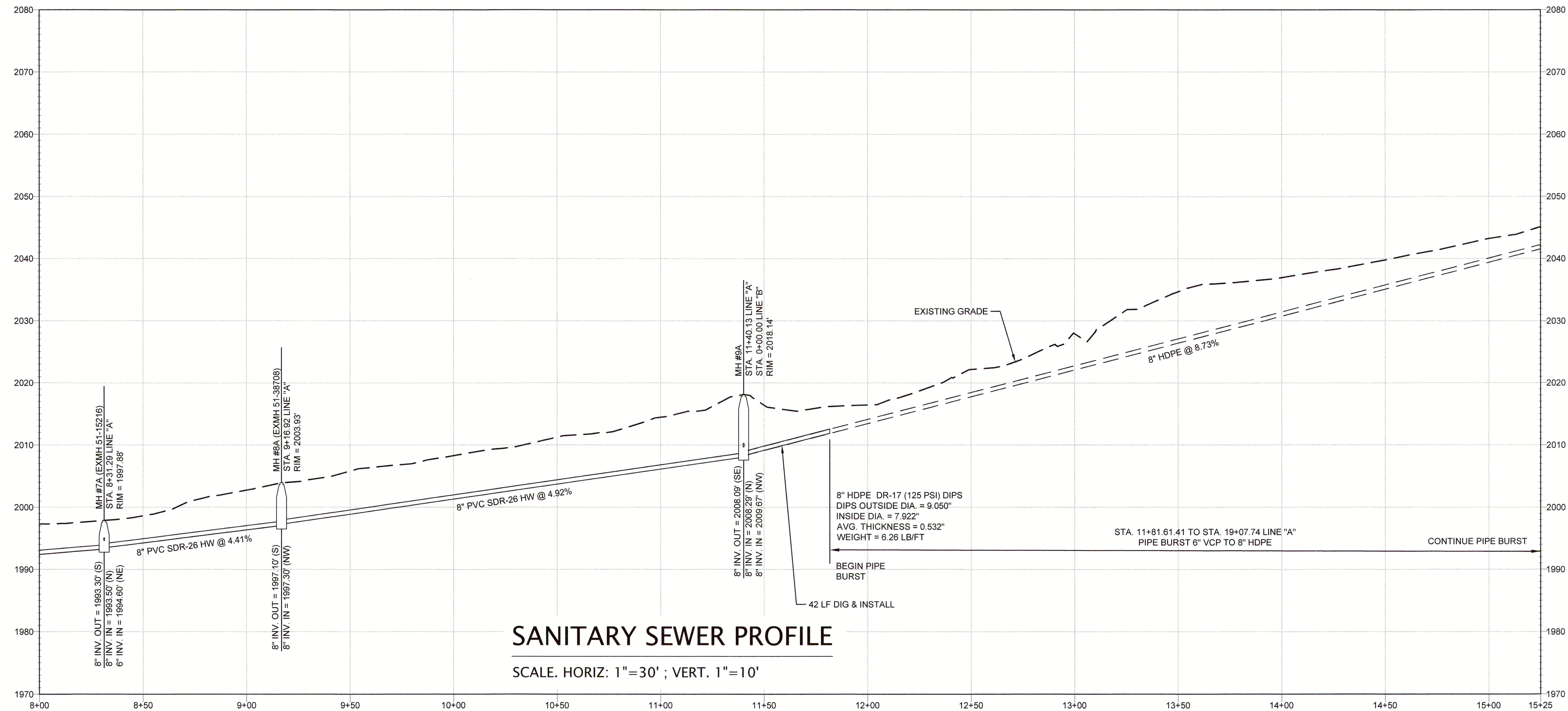
Metropolitan Sewerage District • Buncombe County

Engineering Division



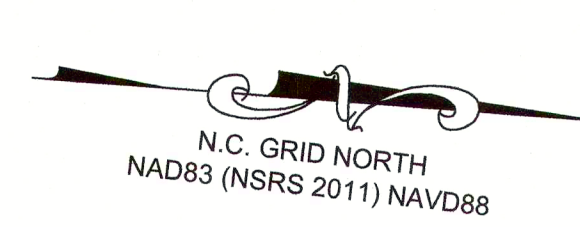
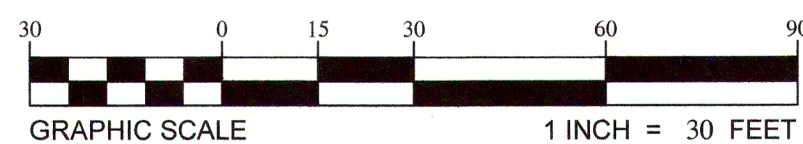
SANITARY SEWER PLAN

SCALE: 1"=30'



SANITARY SEWER PROFILE

SCALE. HORIZ: 1"=30' ; VERT. 1"=10'



Metropolitan Sewerage District
of Buncombe County

JONESTOWN RD. @ RIVERSIDE DR.
Sanitary Sewer Plan & Profile

PL-3
DRAWN: KMK
CHECKED BY: TH
APPROVED: TH
DATE: 01/16/2024
SCALE: 1"=30'



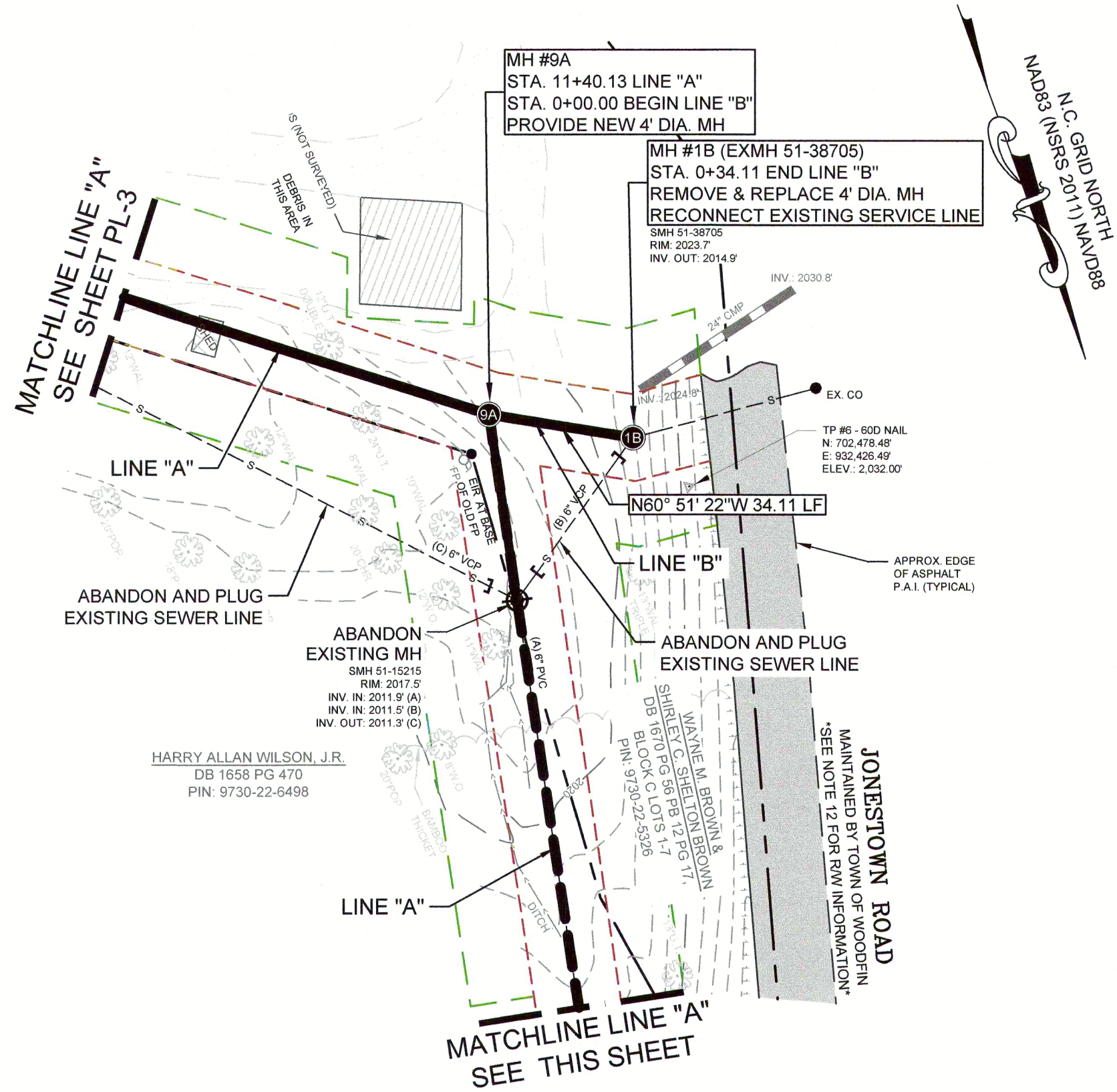
NO.	DATE	DESCRIPTION
2	06/02/2022	BID SET
1	04/16/2024	ROW SUBMITTAL
No.		

REVISIONS

MSD

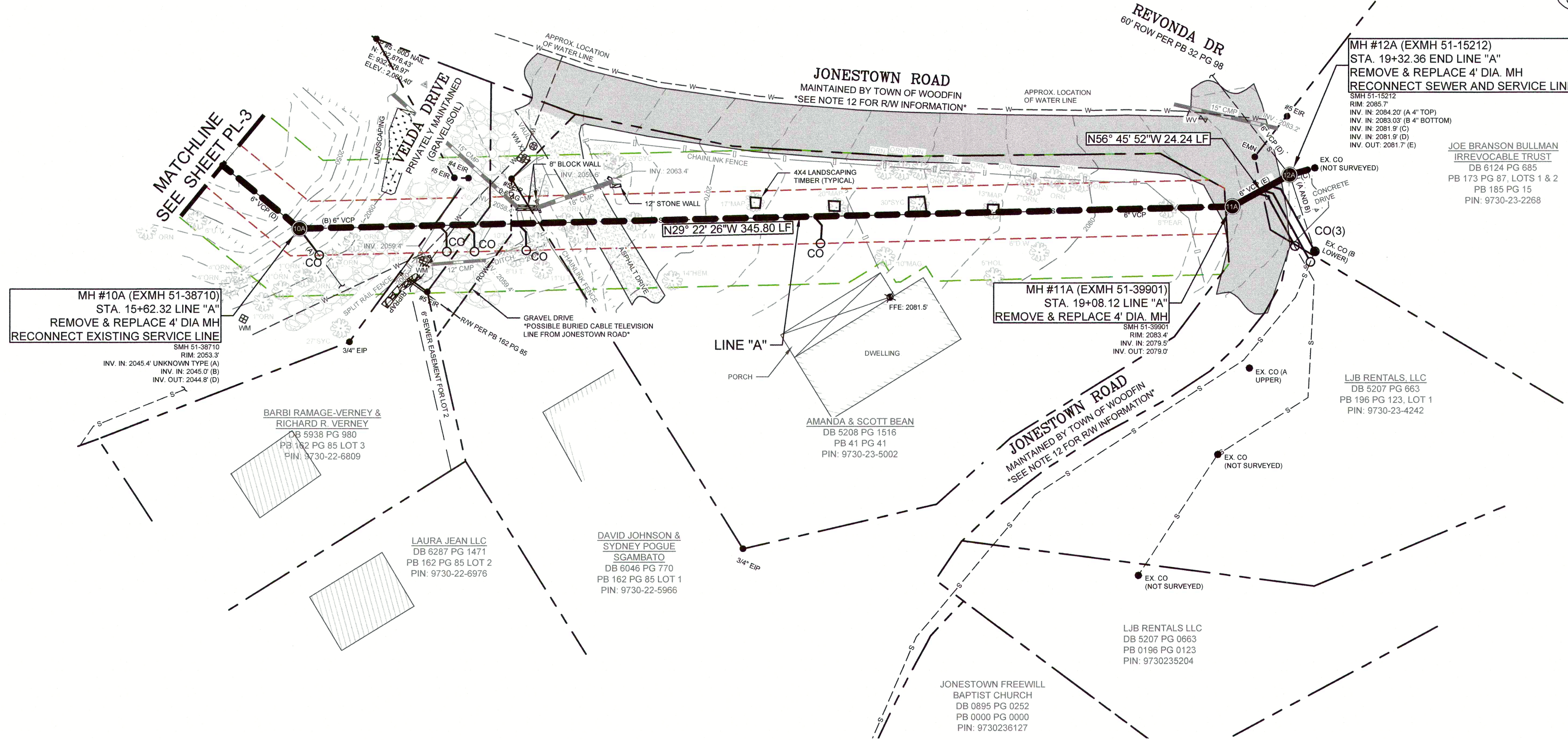
Engineering Division





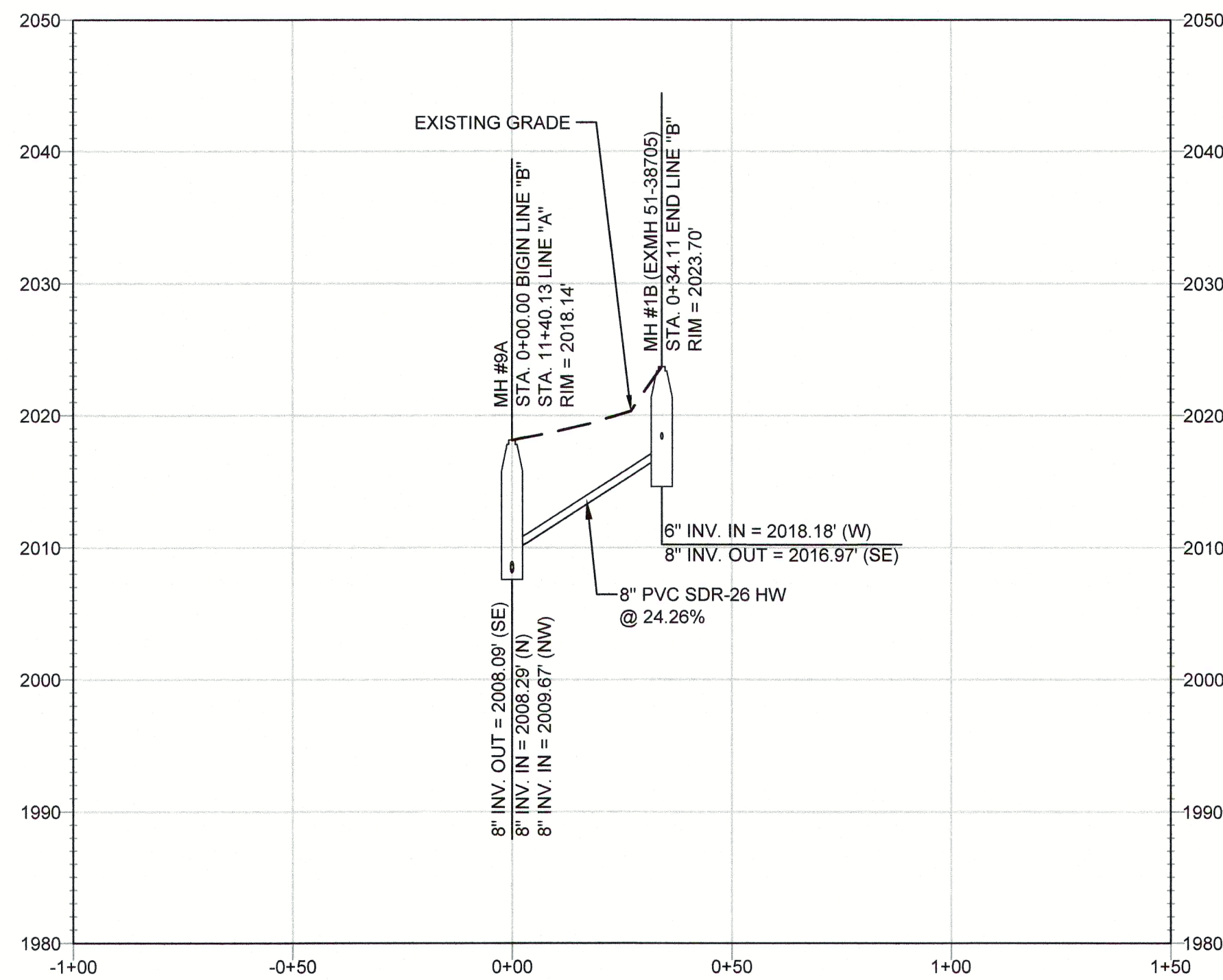
SANITARY SEWER PLAN LINE "B"

SCALE: 1"=30'



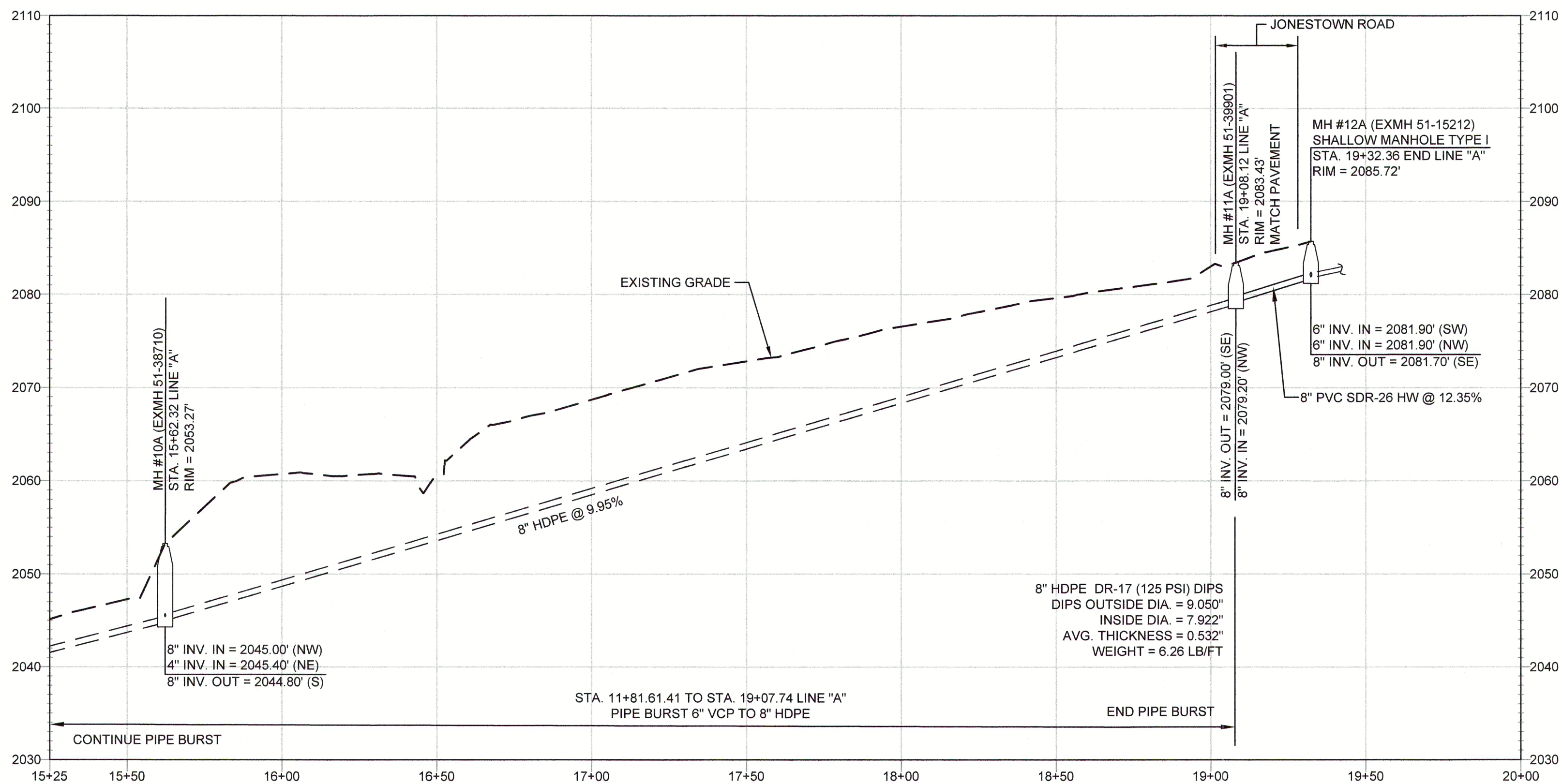
SANITARY SEWER PLAN LINE "A"

SCALE: 1"=30'



SANITARY SEWER PROFILE LINE "B"

SCALE. HORIZ: 1"=30' ; VERT. 1"=10'



SANITARY SEWER PROFILE LINE "A"

SCALE. HORIZ: 1"=30' ; VERT. 1"=10'

Metropolitan Sewerage District
of Buncombe County

JONESTOWN RD. @ RIVERSIDE DR.
Sanitary Sewer Plan & Profile

PL-4

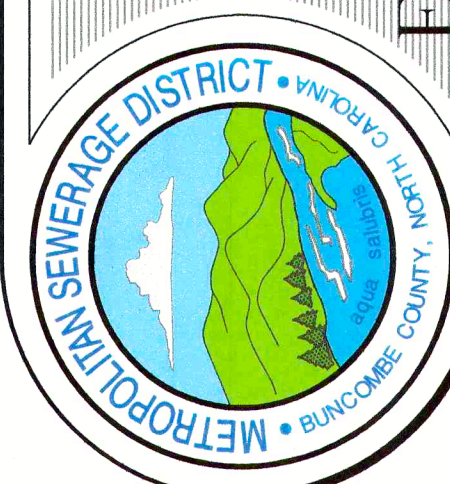
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CHECKED BY: TH
APPROVED: TH
DATE: 01/16/2024
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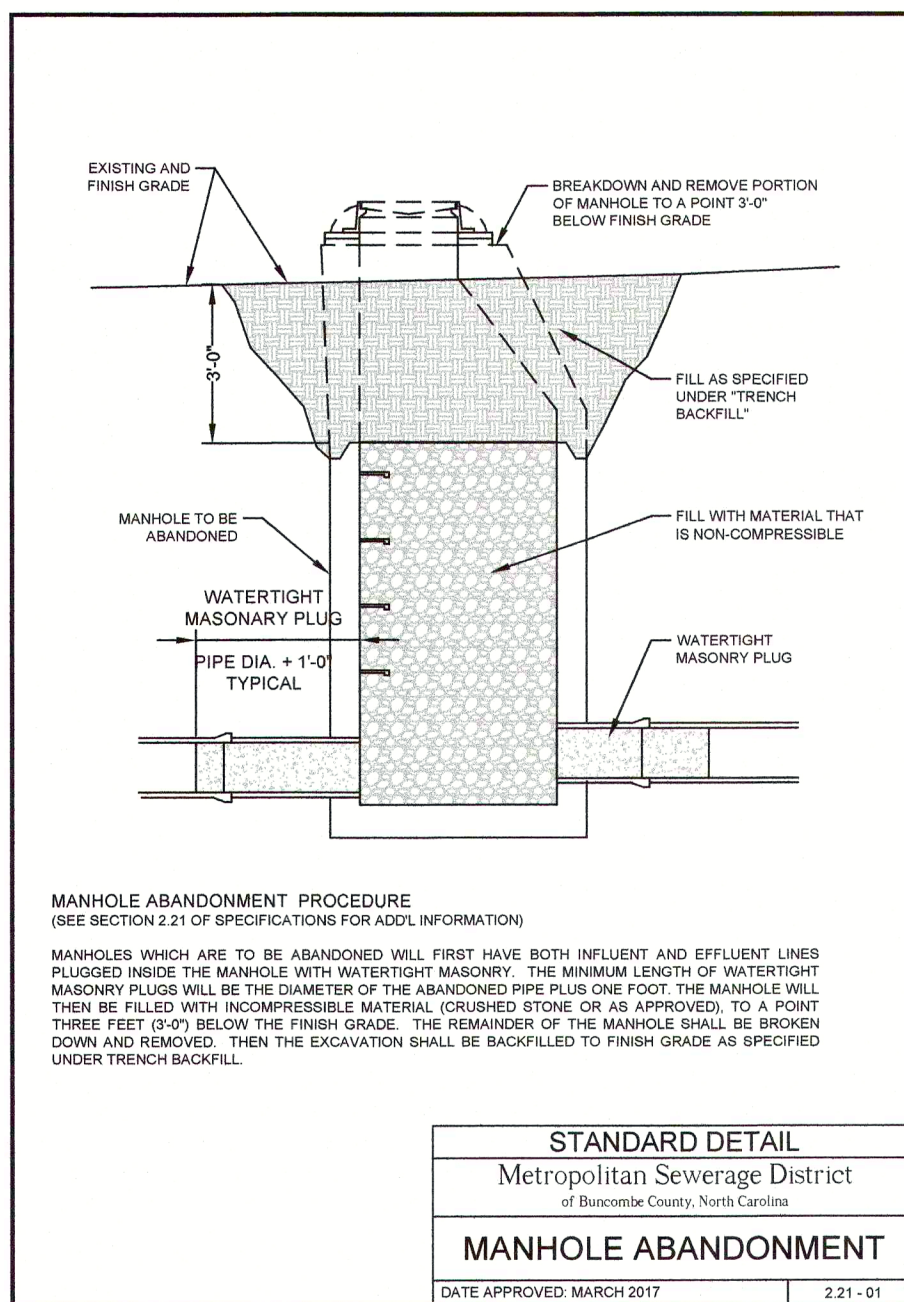
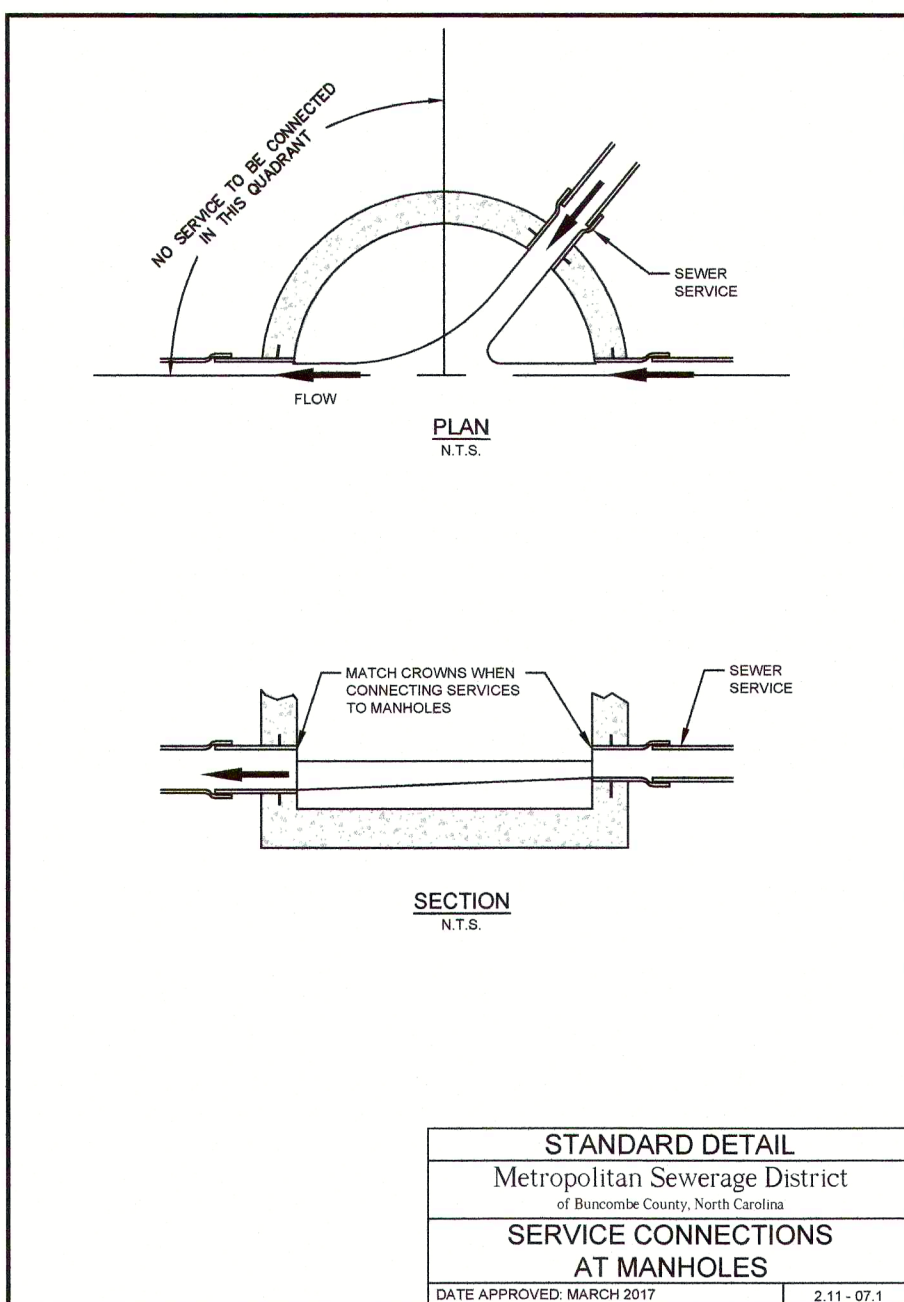
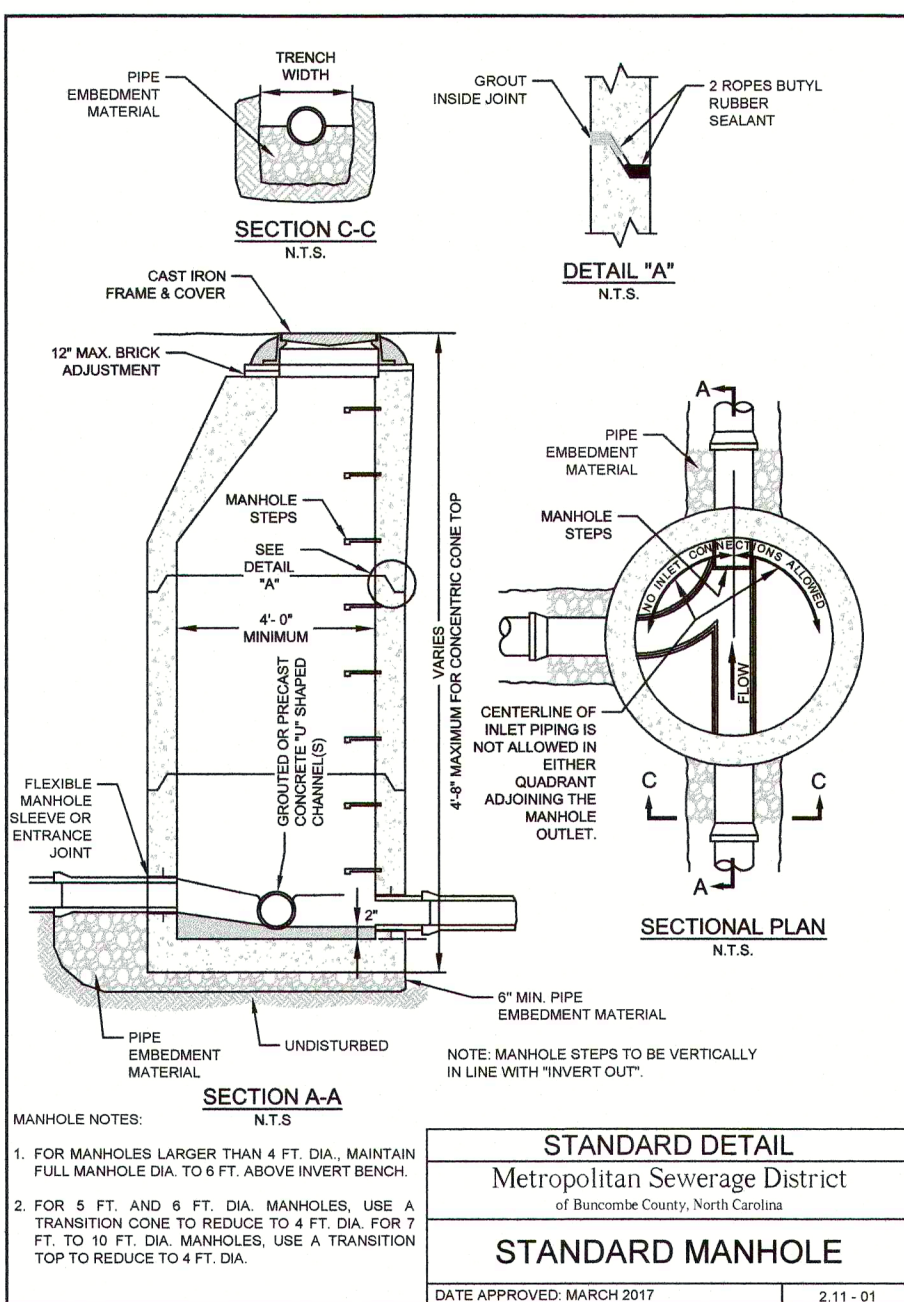
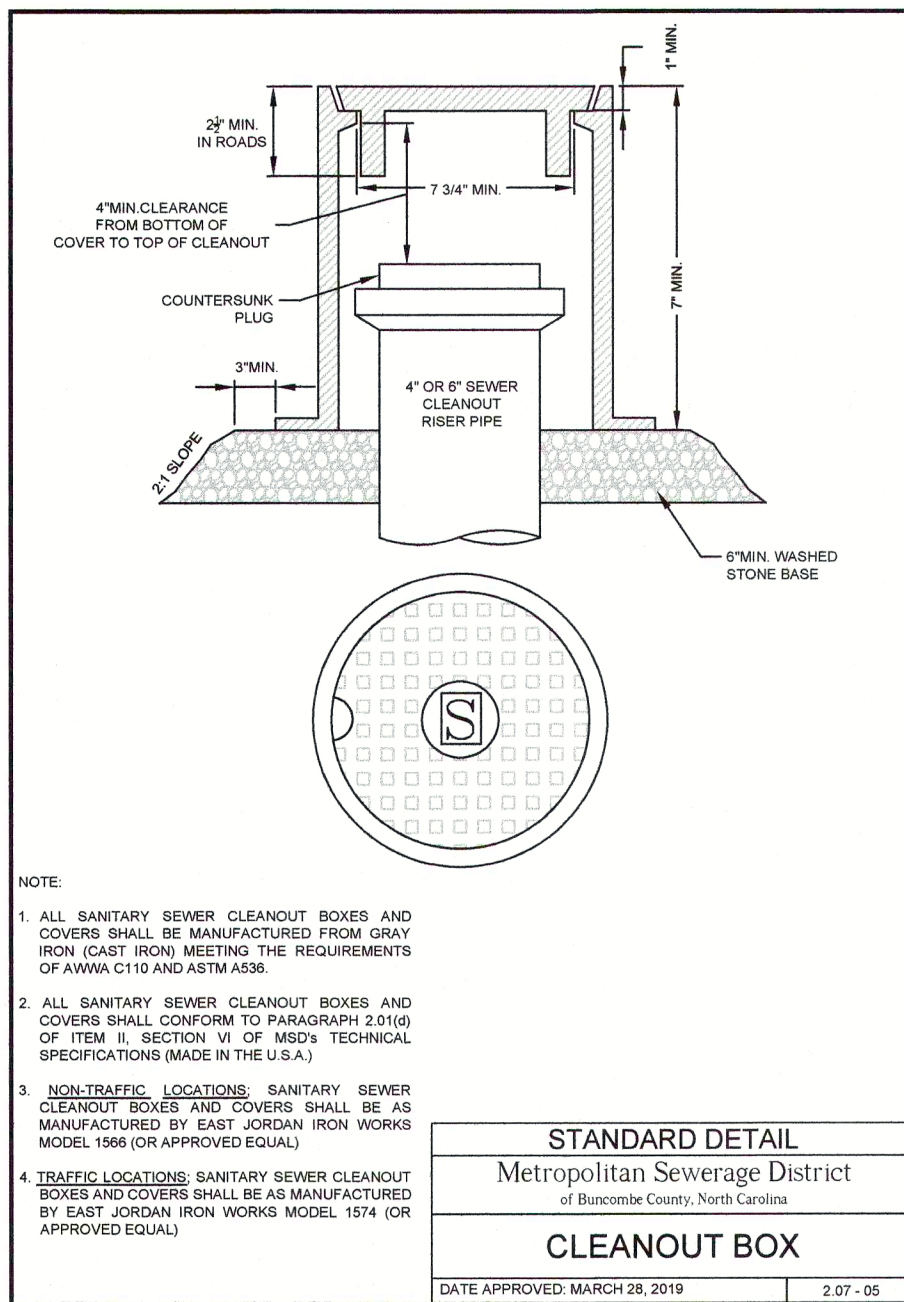
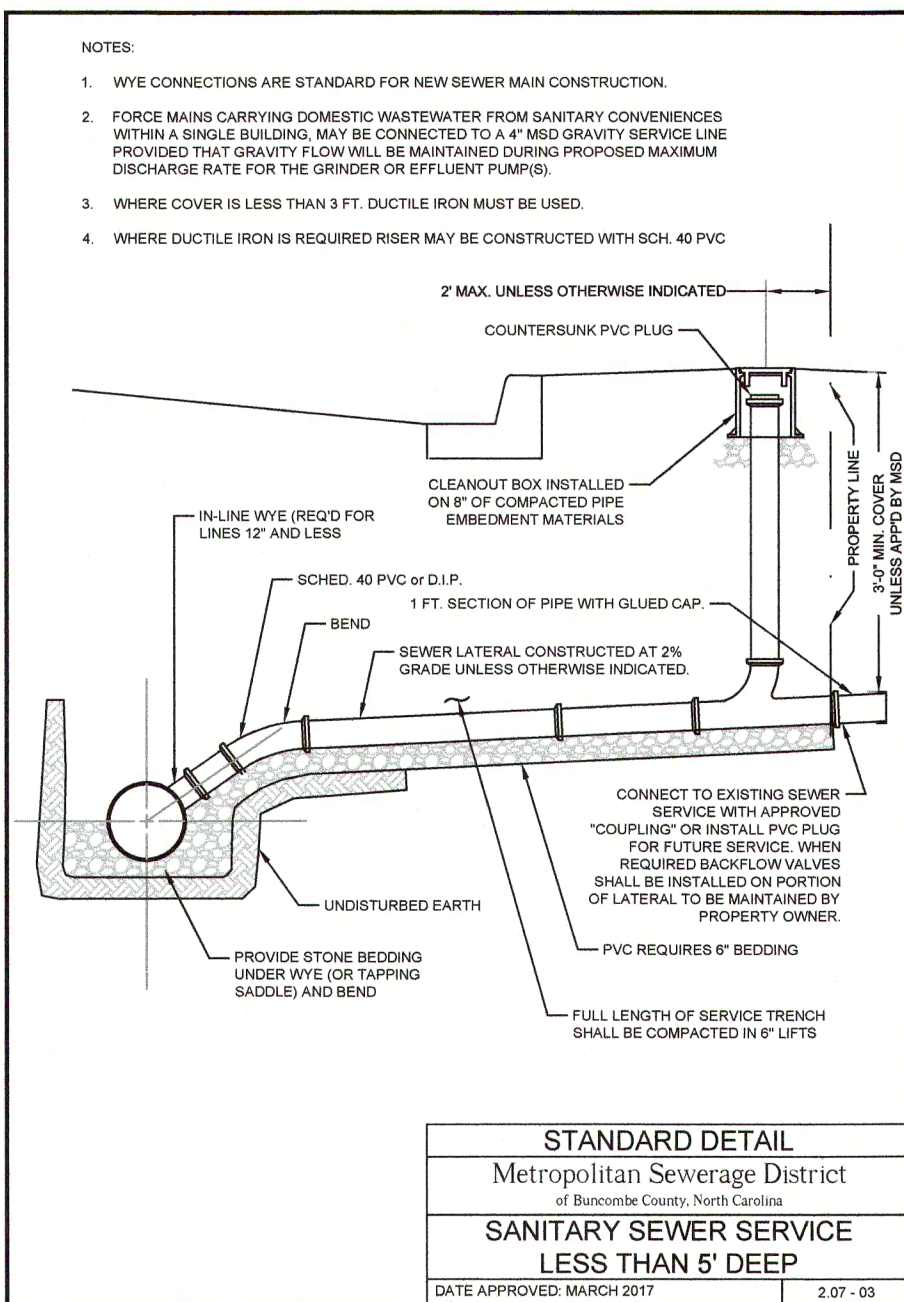
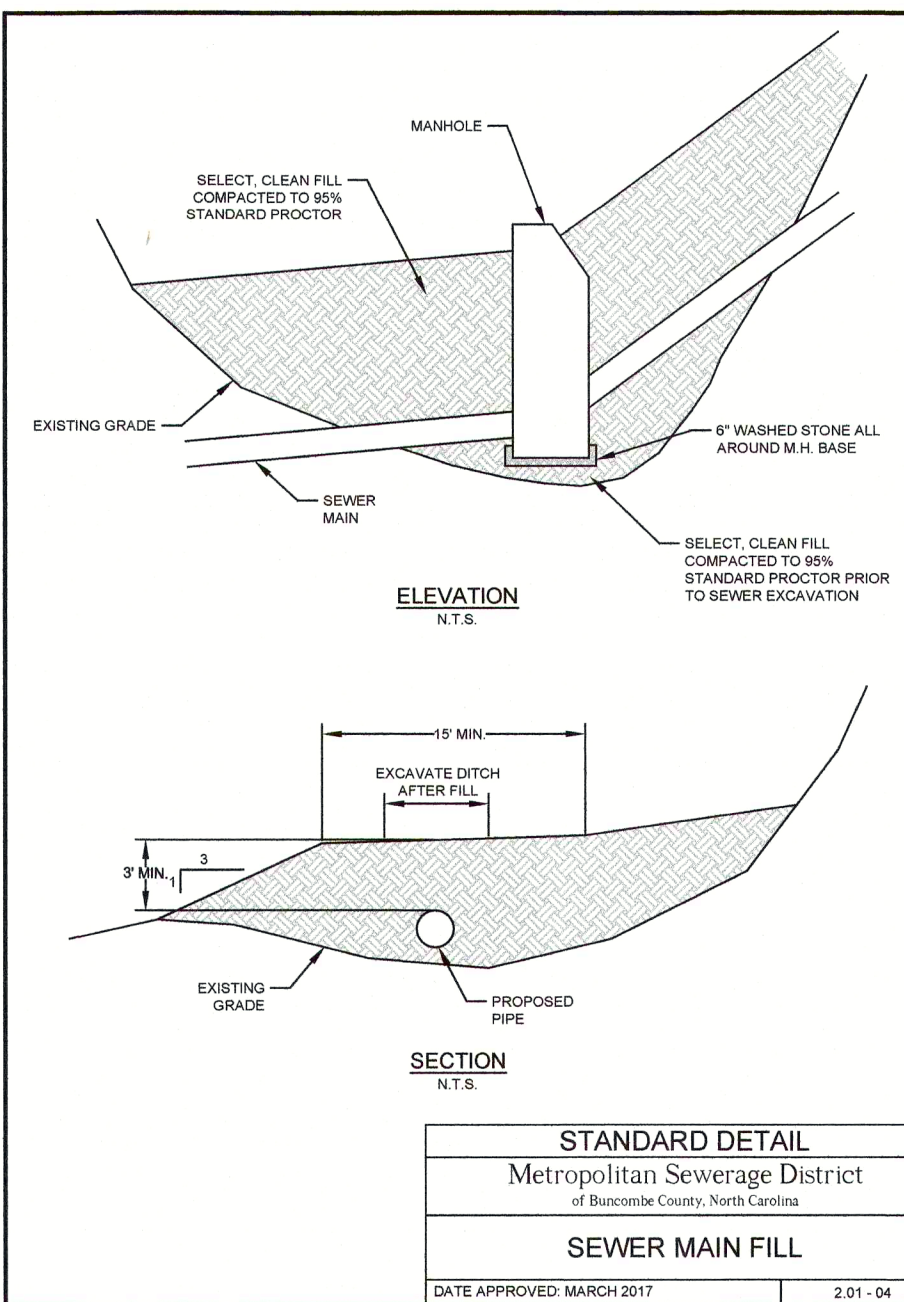


REVISIONS		DATE
No.	DESCRIPTION	
2.	BID SET	06/30/2022
1.	ROW SUBMITTAL	04/16/2024

MSD

Engineering Division





Classification	Depth of Paving Courses for Payment Repeats Not Requiring Shoring		
	Base Course	Binder	Surface Course
Light Duty Commercial Drive	4" ABC compacted to 100% standard proctor	No binder needed	2" 69.5C compacted to 90% of maximum lab density
Residential Drive	6" ABC compacted to 100% standard proctor	No binder needed	2" 69.5C compacted to 90% of maximum lab density

Diagram labels and dimensions:

- SAW CUT
- EXISTING PAVEMENT
- EXISTING BASE COURSE
- BITUMINOUS TACK COAT
- SURFACE COURSE
- AGGREGATE BASE COURSE
- 1'-0"
- 4"
- DIRY UNDISTURBED EARTH
- TRENCH BACKFILL MATERIAL COMPACTED TO 90% STANDARD PROCTOR IN 4" LIFTS
- OVERLAY AS DIRECTED BY THE ENGINEER
- BITUMAL BACKFILL SEE TRENCH DETAILS

PRIVATE DRIVE AND PARKING LOT PAVEMENT REPAIR
(IN AREAS OF NON-HEAVY SOUTH TRAFFIC)
N.T.S.

Diagram labels and dimensions:

- EXISTING GRAVEL
- EXISTING GRAVEL
- 4"
- DIRY UNDISTURBED EARTH
- TRENCH BACKFILL MATERIAL COMPACTED TO 90% STANDARD PROCTOR IN 4" LIFTS
- BITUMAL BACKFILL SEE TRENCH DETAILS

GRAVEL SURFACE REPAIR
N.T.S.

NOTES:

- EDGES ARE TO BE SAW CUT WITH A CONCRETE SAW TO A NEARLY SQUARE EDGE, AND BROOMED CLEAN OF CURT PRIOR TO APPLICATION OF TACK.
- PAVEMENT REPAIR DETAIL SHALL BE USED FOR ALL BITUMINOUS SURFACES WHICH ARE NOT UNDER CONTROL OF THE N.C.D.C. OR BULTRIME FORMER.

REV. JAN 2005 KRM

DATE APPROVED: MARCH 2017

STANDARD DETAIL
Metropolitan Sewerage District
of Beaufort County, North Carolina

PERMANENT PAVEMENT & GRAVEL SURFACE REPAIR

DATE: 03/20/2017

PERMANENT SEEDINGS SPECIFICATIONS		
LOCATION	OPEN FIELDS PASTURES	LAWNS
SEED TYPE	KENTUCKY 31 FESCUE	3000 LBS/AC. 10-15-10 ARREST FESCUE 17.5 LBS/AC ARREST FESCUE 17.5 LBS/AC ARREST FESCUE 17.5 LBS/AC ARREST FESCUE 17.5 LBS/AC ARREST FESCUE 17.5 LBS/AC
LIME APPLICATION	4,000 LB/AC (GROUND AG)	4,000 LB/AC (GROUND AG)
FERTILIZER	1500 LB/AC (10-10-10) 500 LB/AC (2-2-0)	1500 LB/AC (10-10-10) 500 LB/AC (2-2-0)
MULCH	3,000 - 4,000 LB/AC STRAW	4,000 - 5,000 LB/AC STRAW

TEMPORARY SEEDINGS SPECIFICATIONS		
TIME OF YEAR	WINTER OR SPRING (FALL)	SUMMER
SEED TYPE	WINTER OR SPRING (FALL) PTE (GRASS)	WINTER THROUGH AUGUST GERMAN MILLET
LIME APPLICATION	2,000 LB/AC (GROUND AG)	2,000 LB/AC (GROUND AG)
FERTILIZER	750 LB/AC (10-10-10)	750 LB/AC (10-10-10)
MULCH	3,000 - 4,000 LB/AC STRAW	3,000 - 4,000 LB/AC STRAW

STANDARD DETAIL	
Metropolitan Sewerage District of Broward County, North Carolina	
SEEDING SCHEDULES	
DATE APPLIED	MARCH 2017
	5-04-01

